



Sensitherm

Specialist in custom design cables and sensors **SINCE 1999**

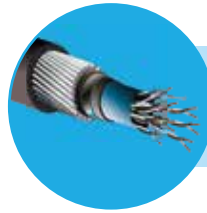
We protect industrial plants with
special cables **CPR approved**



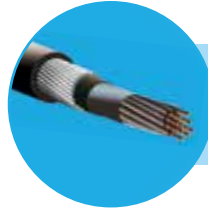
QUALITY SYSTEM CERTIFIED ISO 9001 BY IMQ
OUR PRODUCTION IS SUSTAINABLE FOR THE ENVIRONMENT



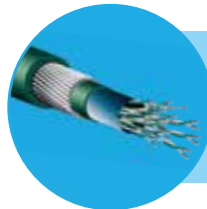
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SHIELDED AND ARMURED



CONTROL CABLES - 2
SHIELDED AND ARMURED



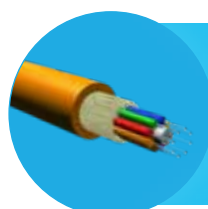
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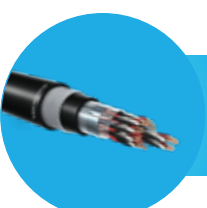
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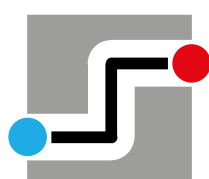
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Sensitherm



Special cables on demand since 1999 - CPR UE 305/2011 COMPLIANCE

OFF-SHORE PLATFORMS

Off-shore platform cables are critical to the efficiency and safety of offshore operations, Sensitherm designs and manufactures cables that are highly reliable and resistant to extreme conditions.

- ✓ Compound type SHF2 acc. To IEC 60092-359
- ✓ Resistance to Water Absorption 24 hrs at 100 °C as IEC 60811
- ✓ Resistance to Ozone as EN 50396:2007-8.1 A, B
- ✓ Optical Density of Smoke as EN 61034-2

Our SHF2 outer sheath resistance to constant exposure to wear-inducing elements such as humidity, saltwater and other aggressive chemicals typical of naval and off-shore applications, while also being fire-resistant.

Sensitherm's key strengths include the ability to customize products to precisely meet your requirements with enormous flexibility, offering you a tailor-made off-shore cable.



Extreme applications

MUD

Compound type SHF2 acc. to IEC 60092-360

Thermoset, crosslinked by Dry Silane procedure to be resistant to organic fluids

Conforming to NEK 606:2016 requisitions

- ✓ Resistance to oils as per IRM 902 e 903 along 7 days at 100°C
- ✓ Resistance (mud water based) to calcium bromide along 56 days at 70°C
- ✓ Resistance to water absorption as per IEC 60811 along 7 days at 70°C

Cables fit for offshore applications on platforms, (floating prod. storage and offloading unit), drilling pumps...and where organic fluids are present in petrochemical environments

GAS TIGHT

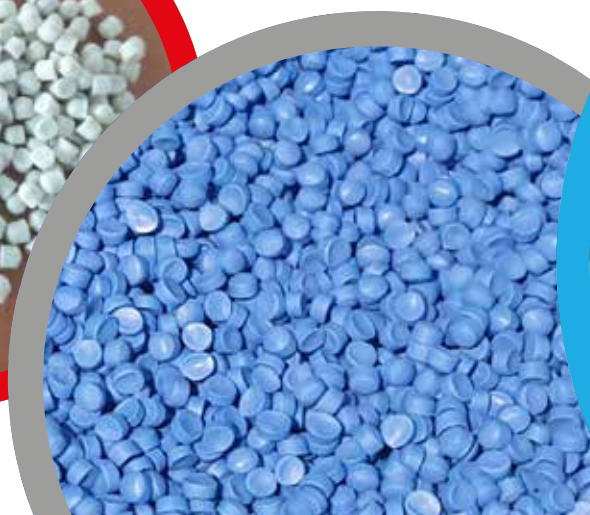
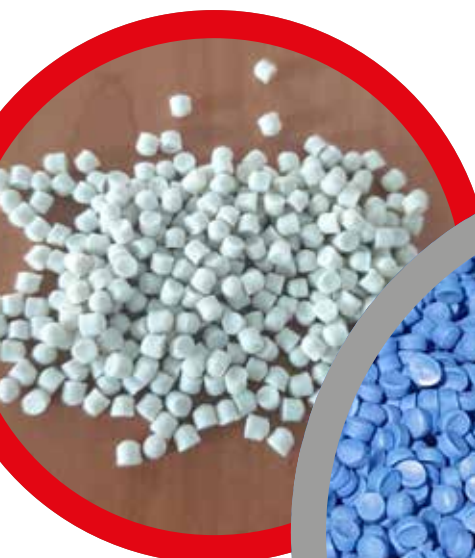
Gelly filled cable according to IEC 60079-14 annexe E

To prevent gas and vapour migration all along the cable inbetween cores interstices

Fit for use in explosion proof and hazardous areas ATEX

- ✓ In-house testing equipment to release immediate test report

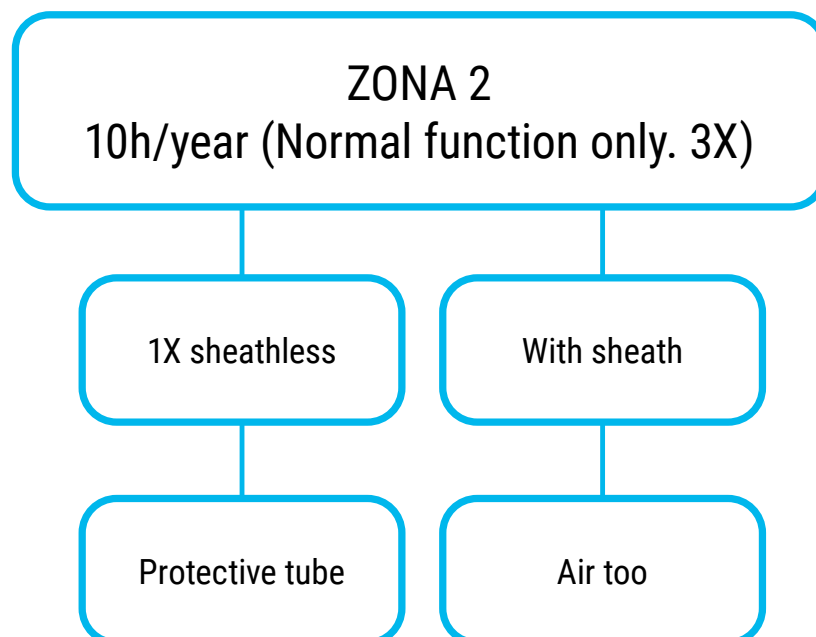
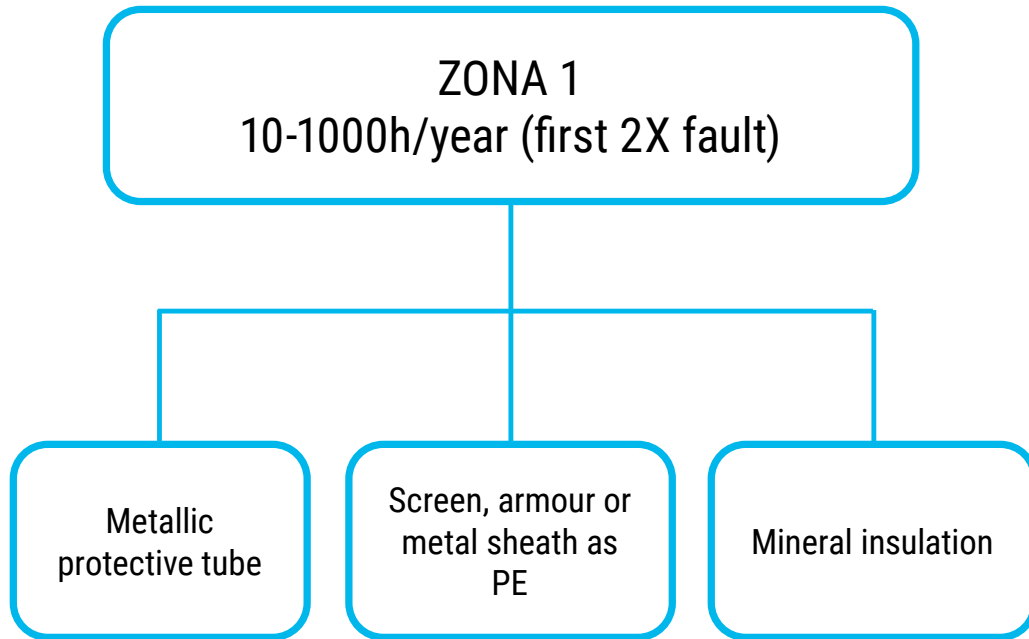
Cables suitable for use in gas plants with high risk of gas dispersion,when buffered cable glands are not provided





ATEX

Conductor – Cable Types – GAS



CABLES in ATEX systems:

The ATEX EN60079-14 standard regarding cables considers them to be passive elements, so construction instructions are given according to the type of system chosen by the designer, but it does not define a specific certification or test method or approval, so we can say that there is no "ATEX" certification for cables.

The general and main requirements for cables used in the ATEX zone provide that the sheath must be compact and extruded in a way that is integral with the internal "compression" cable (not in a tube) and as circular as possible, such as to allow the cable gland to tighten the cable compactly, both on the outside of the sheath and inside.

The sheaths must be resistant to the UV rays and chemical agents present in the system. If this is not possible, the cable must be laid inside a suitable pipe following the provisions of EN60079-14.

In particularly heavy systems, where the risks of mechanical damage and chemical agents are high, armed and shielded cables must be used.

With regard to the fire propagation protection in the standard, it is prescribed that the cables must be flameproof according to the IEC60332.3-22 standards, otherwise they must be laid in tunnels filled with sand.

With regard to the laying of cables in systems where they may be present, even only in case of failure of the toxic and/or corrosive gas, and that run from the field to the safe area (control room or manned technical areas), it is essential to ensure that no gas can travel through the cable inside it, due to the "chimney effect", and enter the manned rooms, causing intoxication or fire/explosion. To do this, there are two methods: the most widely-used method is the use of buffered cable glands (so-called 'three-part glands') that, once installed, are filled with a special blocking resin, or there are even more high-performance buffered cable glands for more demanding situations.

Otherwise, as provided for in Annex "E" of the EN60079-14 standard, buffered cables must be used inside that do not allow the air/gas to circulate according to a precise test.

With regard to EEx-d systems, since the signals or power supplies that travel through the dangerous area inside the cable are not protected (e.g. by an IS barrier in a safe area), it is extremely important to protect the cable mechanically from damage caused from the outside. This can be done by putting the cables inside conduit pipes or by arming the cable with galvanised iron.

As far as the EEx-I systems are concerned, the signals inside the cables are protected by the intrinsically safe barriers located in the control room, so even if the cable accidentally breaks, it could not cause any damage or ignition of explosive mixtures.

Consequently, when armed cables or cables with mechanical protections (e.g. cables in tubes) are used, it is only for system reasons and so as not to risk losing the signals in the event of cable damage.

Meanwhile, for cables in intrinsically safe systems, it is essential to pay attention to any energy chains between the pairs or induced magnetic fields that could come from other external cables.

For this reason, it is essential to use suitably shielded cables (usually in aluminium/PET tape with drainage), possibly also on the single pairs plus the total of the pairs, and to place all the screens on the ground in one place on a special ground bar in the control room and segregate the circuits so as to keep the cables with IS signals distant or in channels separate from all the other cables containing other circuits. In addition, it is forbidden to put other non-EEx-I signals inside the EEx-I circuit cables.

Usually a quality cable for intrinsically safe circuits should have the lowest possible capacity values, $\leq 200\text{pF/mt}$, as the cable could act as a capacitor, accumulating energy inside it, which when added to the energy delivered by the barrier could cause triggering in the dangerous zone and should have inductance values that are equally low, $\leq 1\text{microH/mt}$. This is because the inductance generated by the single pairs of the cable could create inductive fields that could chain an energy in the adjacent pairs, which when added to the energy generated by the barrier could generate triggering in the dangerous zone and a degree of insulation of the cable of at least 500V.

For EEx-e systems, the same rules apply as those for EEx-d systems.

Extremes climates

Desert

UV and weathering resistant cables according to ISO 4892 and with armouring for direct burial

Artic

Cables resistant to artic temperatures up to -52°C as per IEC 60811

Cold bending test -35°C

Wiht laying minimum temperature -15°C

Cables are EAC TRCU certified and have technical passport 004/2011 for Russia



Fire behaviours

Flame retardancy test:

acc.to IEC 60332-1 | CEI 20-35 | EN50265-2-1

acc.to IEC 60332-3-24 | CEI 20-22/3 | EN50266-2-4

acc.to IEC 60332-3-22 | CEI 20-22/2 | EN50265-2-2

Low smoke and halogen free:

acc.to IEC 60754-2 | CEI 20-37/2 | EN50267-2-2

Low smoke density emission:

acc.to IEC 61034 | EN50268

Fire resistant test:

according to IEC 60331-11

according to IEC 60331-21

according to IEC 60331-23

according to CEI EN 50200 (PH30-PH60-PH90-PH120)

according to BS6387

according to BS8434-2 (water spray)

Class Cca s1b-d1-a1:

according to CPR EU 305/2011 | EN 50575:2014 A1

Class B2ca s1b-d1a1:

according to CPR EU 305/2011 | EN 50575:2014 A1





Class ECA:

according to CPR EU 305/2011 | EN 50575:2014 A1



Il Comitato Elettrotecnico Italiano ha emesso, in data 1° settembre 2016, la Norma CEI UNEL 35016 che fissa, sulla base delle prescrizioni normative installative CENELEC e CEI, le quattro classi di reazione al fuoco per i cavi elettrici in relazione al Regolamento Prodotti da Costruzione (UE 305/2011), che consentono di rispettare le prescrizioni installative nell'attuale versione della Norma CEI 64-8. Norma CEI UNEL si applica a tutti i cavi elettrici, siano essi per il trasporto di energia o di trasmissione dati con conduttori metallici o dielettrici, per installazioni permanenti negli edifici e opere di ingegneria civile con lo scopo di supportare progettisti ed utilizzatori nella scelta del cavo adatto per ogni tipo di installazione.

CPR tabella di correlazione

| LUOGHI DI IMPIEGO | LIVELLO DI RISCHIO | DESIGNAZIONE CPR | CLASSE DI PRESTAZIONE |
|---|--------------------------|---------------------|-----------------------|
|  <p>Aerostazioni, stazioni ferroviarie, stazioni marittime, metropolitane in tutto o in parte sotterranee. Gallerie stradali di lunghezza superiore a 500 m, ferroviarie superiori a 1000 m.</p> | ALTO | FG180M16 0,6/1Kv | B2ca-s1a, d1, a1 |
|  <p>Strutture sanitarie, locali di spettacolo e di intrattenimento in genere, palestre e centri sportivi. Alberghi, pensioni, motel, villaggi, residenze turistico-alberghiere. Scuole di ogni ordine, grado e tipo. Locali adibiti ad esposizione e/o vendita all'ingrosso o al dettaglio. Aziende ed uffici con oltre 300 persone presenti; biblioteche ed archivi, musei, gallerie, esposizioni e mostre. Edifici destinati ad uso civile, con altezza antincendio superiore a 24 m.</p> | MEDIO | FG160M16 0,6/1Kv | Cca-s1b, d1, a1 |
|  <p>Edifici destinati ad uso civile, con altezza antincendio inferiore a 24 m, sale d'attesa, bar, ristoranti, studi medici.</p> | BASSO (posa a fascio) | FG160R16 0,6/1Kv | Cca-s3, d1, a3 |
|  <p>Altre attività: installazioni non previste negli edifici di cui sopra e dove non esiste rischio di incendio e pericolo per persone e/o cose.</p> | BASSO (posa singola) | FR20R 4501750V | Eca |

ESEMPIO DI CLASSIFICAZIONE

Cca

PROPAGAZIONE INCENDIO

- Lunghezza di propagazione della fiamma: $FS \leq 2,0$ m
- Quantità totale di calore rilasciato: $THR_{1200s} \leq 30$ MJ
- Valore del picco di calore rilasciato: Picco HRR ≤ 60 KW
- Tasso di incremento dell'incendio: $FIGRA \leq 300$ Ws^{-1}
- Altezza di bruciatura: $H \leq 425$ mm

s1b

FUMI

- Quantità totale di fumo emesso: $TSP_{1200s} \leq 50$ m^2
- Valore del picco del fumo emesso: picco SPR $\leq 0,25$ m^2/s
- Trasmittanza: ≥ 60 % < 80 %

d1

GOCCE

- Assenza di gocce/particelle ardenti persistenti: oltre i 10 s entro 1200 s

a1

ACIDITÀ

- Conduttività: $< 2,5$ $\mu S/mm$ e $pH > 4,3$



I requisiti considerati rilevanti per i cavi

A) SICUREZZA IN CASO DI INCENDIO (Requisito n. 2 – Allegato 1 del Regolamento CPR)

Le opere di costruzione devono essere concepite e realizzate in modo che, in caso di incendio:

1. La generazione e la propagazione del fuoco e del fumo al loro interno siano limitate
2. La propagazione del fuoco a opere di costruzione vicine sia limitata
3. Gli occupanti possano abbandonare le opere di costruzione o essere soccorsi in altro modo
4. Si tenga conto della sicurezza delle squadre di soccorso

B) IGIENE, SALUTE E AMBIENTE (Requisito n. 3 – Allegato 1 del Regolamento CPR)

Le opere di costruzione devono essere concepite e realizzate in modo da non rappresentare, durante il loro intero ciclo di vita, una minaccia per l'igiene o la salute e la sicurezza.

La conformità dei cavi al requisito di igiene, salute e ambiente si ritiene implicitamente assolto dal rispetto della Direttiva RoHS (2011/65/UE e successivi adeguamenti) e del Regolamento REACH (1907/2006/CE).

Il Regolamento Prodotti da Costruzione per i Cavi

? I CAVI ELETTRICI RICADONO NEL REGOLAMENTO CPR?

Tutti i cavi elettrici per energia, controllo e telecomunicazioni di qualsiasi tensione e tipo di conduttore sono richiamati dalla tabella 1 dell'allegato IV del Regolamento CPR che definisce i vari livelli di prestazione con l'obiettivo di limitare la generazione la propagazione dell'incendio e le emissioni di fumo, riconoscendo l'importanza del loro comportamento ed il loro ruolo in caso di incendio.

? COSA COMPORTA PER I CAVI RICADERE NELLO SCOPO DELLA CPR?

Con l'emissione di un cavo sul mercato occorrerà che il produttore rediga la Dichiarazione di Prestazione (DoP: Declaration of performance) di quel cavo come da allegato III del Regolamento CPR e che sia in possesso dei requisiti necessari per poter porre la marcatura CE assumendosi la responsabilità della conformità del prodotto a quanto dichiarato. La DoP dovrà accompagnare ogni cavo immesso sul mercato fino all'utilizzatore finale, il quale dovrà esibirla alle autorità competenti qualora esse lo richiedano (art. 7 del Regolamento CPR) potrà essere fornita in forma cartacea o su supporto elettronico.

? COSA SI INTENDE PER INGEGNERIA CIVILE?

Si definiscono opere di ingegneria civile i lavori di costruzione, manutenzione, riparazione, demolizione, conservazione, risanamento, ristrutturazione o equipaggiamento, la trasformazione, il rinnovamento o lo smantellamento di opere fisse, permanenti o temporanee, in muratura, in cemento armato, in metallo, in legno o in altri materiali, comprese le parti strutturali delle linee elettriche e le parti strutturali degli impianti elettrici, le opere stradali, ferroviarie, idrauliche, marittime, idroelettriche e, solo per la parte che comporta lavori edili o di ingegneria civile, le opere di bonifica, di sistemazione forestale e di sterro. Sono, inoltre, lavori di costruzione edile o di ingegneria civile gli scavi ed il montaggio e lo smontaggio di elementi prefabbricati utilizzati per la realizzazione di lavori edili o di ingegneria civile. (Testo unico sulla salute e sicurezza sul lavoro art. 89, comma 1, lettera a).

? QUALI CAVI SONO INCLUSI SOTTO LA CPR? – Fonte Europacable –

Cavi per installazioni permanenti nelle costruzioni che rientrano nell'ambito di due tipologie di prodotti:

- Cavi destinati ad essere utilizzati per la fornitura di energia elettrica e delle comunicazioni in edifici e altre opere di ingegneria civile soggetti a requisiti prestazionali di reazione al fuoco;
- E in futuro cavi soggetti a requisiti prestazionali di resistenza al fuoco destinati ad essere utilizzati per la fornitura di energia elettrica, delle comunicazioni e rilevazione/allarme incendio in edifici e altre opere di ingegneria civile dove è essenziale assicurare la continuità nella fornitura di energia e/o segnale per la sicurezza dell'installazione.



Thermocouple extension cable

SENSITHERM S.r.l. is specialized in the production of high-quality extension thermocouple cables, with insulation in PVC, XLPE, G16, as detailed in the table below:

| INSULATION MATERIAL | min. T °C | max. T °C |
|---------------------|-----------|-----------|
| PVC | -40 | 80 |
| Polyethylene | -40 | 70 |
| Teflon FEP (*) | -80 | 205 |
| Teflon PTFE (*) | -80 | 260 |
| Silicone | -55 | 180 |
| fiberglass | -70 | 250 |
| G16 | -40 | 90 |

In many industrial thermal processes, particularly those conducted at high temperatures, the use of thermocouples is the simplest, most accurate and cost-effective temperature detection method. To make the connection of the thermocouple to the instrumentation, it is necessary to use materials having the same F.e.m. as the torque output, otherwise spurious F.e.m. could be generated in the joints. The best solution is to use the same materials that the thermocouple is made of. In this case, the cables are referred to as "EXTENSION CABLES."

Should this solution prove too expensive, alloys of a different type can be used; in this case the F.e.m. of the coupled cables is the same as that of the thermocouple, although the F.e.m. of each individual branch is usually not the same. Cables made from these materials are referred to as "COMPENSATION CABLES".

CPR Approved

| Tipo termocoppia <i>Thermocouple types</i> | Cavo estensione e compensato <i>Extension and compensating cable</i> | | Codice Internazionale colori <i>International colour code</i> | Codice colori Eex-i <i>Eex-i Colour code</i> | Codice colori nazionali cavi estensione e compensati <i>National colour code for extension and compensating cables</i> | | | | |
|---|---|-----------------------------------|--|---|---|---|---------------------------------------|---------------------------------------|--|
| | | | | | Inglese <i>English</i> BS1843 | Americano <i>American</i> ANSI/MC96.1 | Tedesco <i>Deutsch</i> DIN43714 | Francese <i>French</i> NFC42324 | Giapponese <i>Japanese</i> JISC1610-1981 |
| | Estensione <i>Extension</i> | Compensato <i>Compensating</i> | DA IEC 584.3:1989 | IEC 584.3:1989 | | | | | |
| T <i>Cu / Co</i> | TX | | | | | | | | |
| J <i>Fe / Co</i> | JX | | | | | | | | |
| E <i>Ch / Co</i> | EX | | | | | | | | |
| K <i>Ch / Al</i> | KX | | | | | | | | |
| | | WX | | | | | | | |
| N <i>NiCrSi / NiSi</i> | NX | | | | | | | | |
| S <i>Pt/Pt10%Rh</i> | SX | | | | | | | | |
| R <i>Pt/Pt13%Rh</i> | RX | | | | | | | | |
| B <i>Pt6%Rh / Pt30%Rh</i> | BX | | | | | | | | |

CALIBRATION AND TOLERANCES OF THERMOCOUPLES AND RESISTANCE THERMOMETERS IEC60584-2 TOLERANCES

This table highlights the maximum error allowed for thermocouples according to the IEC60584 standard based on the selected class.

| TYPE | CLASS | TEMPERATURE RANGE | °C VALUE | ELEMENT | |
|------|-------|---------------------|----------|---------|-------|
| | | | | + | - |
| T | 1 | - 40°C to + 350°C | +/- 0,5 | Cu | CuNi |
| | 2 | - 40°C to + 350°C | +/- 1 | Cu | CuNi |
| E | 1 | - 40°C to + 800°C | +/- 1,5 | NiCr | CuNi |
| | 2 | - 40°C to + 900°C | +/- 2,5 | NiCr | CuNi |
| J | 1 | - 40°C to + 750°C | +/- 1,5 | Fe | CuNi |
| | 2 | - 40°C to + 750°C | +/- 2,5 | Fe | CuNi |
| K | 1 | - 40°C to + 1.000°C | +/- 1,5 | NiCr | Ni |
| | 2 | - 40°C to + 1.200°C | +/- 2,5 | NiCr | Ni |
| R | 2 | 0°C to + 1.600°C | +/- 1,0 | Pt13%Rh | Pt |
| S | 2 | 0°C to + 1.600°C | +/- 1,5 | Pt10%Rh | Pt |
| B | 2 | +600°C to + 1.700°C | +/- 1,5 | Pt30Rh | Pt6rh |
| | 3 | +600°C to + 1.700°C | +/- 4 | Pt30Rh | Pt6rh |

PLATINUM RESISTANCE THERMOMETERS ACCORDING TO DIN 751

Sensitherm is able to produce RTD with different degrees of accuracy Pt 100 in class (A or B) or Pt 1000, according on the process requirements.

- Standard temperature range: -50/+400°C
- Special temperature range: -200/+600°C

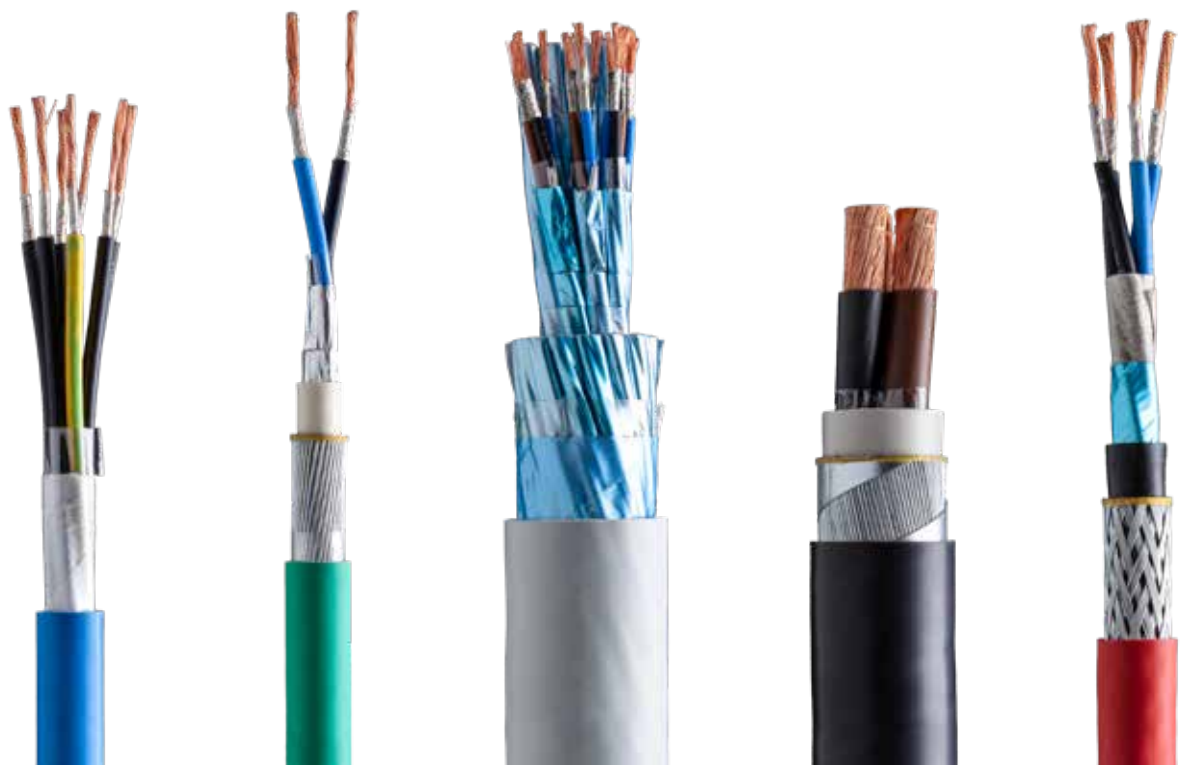
| CLASS | RANGE | TOLERANCES |
|-------|-------|------------------------|
| A | a 0°C | 0,15 + 0,002 (t) a 0°C |
| b | a 0°C | 0,3 + 0,005 (t) a 0°C |





 **Sensitherm** 

Special cables on demand since 1999 - CPR UE 305/2011 COMPLIANCE



CPR approved special cables

INSTRUMENTATION CABLE - 101 CPR EU 305/2011 16

CU, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

INSTRUMENTATION CABLE - 102 CPR EU 305/2011 24

CU, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR,
M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

MULTICORE POWER CABLE - 103 CPR EU 305/2011 40

CU, G16 INSULATION, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

INSTRUMENTATION CABLE - 104 CPR EU 305/2011 46

CU, G16 INSULATION, INDIVIDUAL ALUMINIUM SCREEN AND COPPER WIRE BRAID OVERALL SCREEN, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

CONTROL AND POWER CABLE - 105 CPR EU 305/2011 48

CU, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

CONTROL AND POWER CABLE - 106 CPR EU 305/2011 52

CU, G16 INSULATION, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

CONTROL AND POWER CABLE - 107 CPR EU 305/2011 55

CU, G16 INSULATION, R16 INNER SHEATH, STEEL WIRE ARMOUR, R16 OUTER SHEATH
IEC 60332.1 IEC 60332.3

INSTRUMENTATION CABLE - 108 CPR EU 305/2011 61

CU, PVC INSULATED, INDIVIDUAL AND OVERALL SCREEN, PVC BEDDING, SWA, PVC OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

FIRE RESISTANT CABLE - 110 CPR EU 305/2011 64

F Conductor, FR-HEPR G18 INSULATION, M16 OUTER SHEATH. EN50200 PH 120,
IEC 60502-1, IEC 60332.3 - HALOGEN FREE

POWER AND CONTROL CABLE - 111 CPR EU 305/2011 67

F Conductor, FR-HEPR G18 INSULATION, M16 OUTER SHEATH.
IEC 60502-1, IEC 60332.3 - HALOGEN FREE - CPR B2ca s1a d0 a1

FIRE RESISTANT INSTRUMENTATION CABLE - 112 CPR EU 305/2011 70

Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.
EN50200 PH120, IEC 60332.1 IEC 60332.3 - HALOGEN FREE

FIRE RESISTANT INSTRUMENTATION CABLE - 113 CPR EU 305/2011 74

Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH,
STEEL WIRE ARMOUR, M16 OUTER SHEATH. EN50200 PH120, IEC 60332.1 IEC 60332.3 - HALOGEN FREE

CONTROL AND POWER CABLE - 114 CPR EU 305/2011 86

CU, G16 INSULATION, OVERALL SCREEN PCWB, R16 INNER SHEATH, SWB ARMOUR, R16 OUTER SHEATH.
IEC 60332.1 - IEC 60332.3 - OIL RESISTANT - CPR Cca s3, d1, a3

CONTROL AND POWER CABLE - 115 CPR EU 305/2011 90

CU, G16 INSULATION, OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

THERMOCOUPLE EXTENSION CABLE - 116 CPR EU 305/2011 92

Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

THERMOCOUPLE EXTENSION CABLE - 117 CPR EU 305/2011 93

TC Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE
ARMOUR, M16 OUTER SHEATH IEC 60584 IEC 60332.3 - HALOGEN FREE

Instrumentation Cable – 101-1

CPR EU 305/2011

**Conductor, G16 INSULATION, OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 101-1/23 10/11/2023 Rev. 0

Type: FG16OHM16 0,6/1 KV - FG16XOHM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XHOHM16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance $\leq 0,90\text{ mH/Km}$
- Capacitance $\leq 0,200\text{ }\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved Cca s1b,d1,a1

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | | | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|------------|---------|---------------------------|---------------------------|--------------------|--------------|-------------------|
| 1011900501 | 1011501501 | FG16OHM16 | 0,6/1KV | 1x2x0,75 mm ² | 1,8 | 8,8 | 110 | 88 |
| 1011900502 | 1011501502 | FG16XOHM16 | 0,6/1KV | 2x2x0,75 mm ² | 1,8 | 12,3 | 190 | 129 |
| 1011900503 | 1011501503 | FG16XOHM16 | 0,6/1KV | 3x2x0,75 mm ² | 1,8 | 12,9 | 240 | 136 |
| 1011900504 | 1011501504 | FG16XOHM16 | 0,6/1KV | 4x2x0,75 mm ² | 1,8 | 14 | 280 | 147 |
| 1011900505 | 1011501505 | FG16XOHM16 | 0,6/1KV | 5x2x0,75 mm ² | 1,8 | 15,3 | 340 | 161 |
| 1011900506 | 1011501506 | FG16XOHM16 | 0,6/1KV | 6x2x0,75 mm ² | 1,8 | 16,5 | 380 | 174 |
| 1011900507 | 1011501507 | FG16XOHM16 | 0,6/1KV | 7x2x0,75 mm ² | 1,8 | 16,7 | 430 | 176 |
| 1011900508 | 1011501508 | FG16XOHM16 | 0,6/1KV | 12x2x0,75 mm ² | 2,0 | 21,9 | 670 | 230 |
| 1011900509 | 1011501509 | FG16XOHM16 | 0,6/1KV | 16x2x0,75 mm ² | 2,0 | 24,3 | 860 | 256 |
| 1011900510 | 1011501510 | FG16XOHM16 | 0,6/1KV | 24x2x0,75 mm ² | 2,0 | 28,5 | 1190 | 300 |
| 1011900511 | 1011501511 | FG16OHM16 | 0,6/1KV | 1x2x1 mm ² | 1,8 | 9 | 120 | 90 |
| 1011900512 | 1011501512 | FG16XOHM16 | 0,6/1KV | 2x2x1 mm ² | 1,8 | 12,8 | 210 | 135 |
| 1011900513 | 1011501513 | FG16XOHM16 | 0,6/1KV | 3x2x1 mm ² | 1,8 | 13,3 | 260 | 140 |
| 1011900514 | 1011501514 | FG16XOHM16 | 0,6/1KV | 4x2x1 mm ² | 1,8 | 14,7 | 310 | 155 |
| 1011900515 | 1011501515 | FG16XOHM16 | 0,6/1KV | 5x2x1 mm ² | 1,8 | 17,7 | 380 | 168 |
| 1011900516 | 1011501516 | FG16XOHM16 | 0,6/1KV | 6x2x1 mm ² | 1,8 | 17,5 | 240 | 184 |
| 1011900517 | 1011501517 | FG16XOHM16 | 0,6/1KV | 7x2x1 mm ² | 1,8 | 17,7 | 480 | 186 |
| 1011900518 | 1011501518 | FG16XOHM16 | 0,6/1KV | 12x2x1 mm ² | 2,0 | 22,8 | 760 | 240 |
| 1011900519 | 1011501519 | FG16XOHM16 | 0,6/1KV | 16x2x1 mm ² | 2,0 | 25,7 | 980 | 270 |
| 1011900520 | 1011501520 | FG16XOHM16 | 0,6/1KV | 24x2x1 mm ² | 2,0 | 30,9 | 1350 | 325 |
| 1011900521 | 1011501521 | FG16OHM16 | 0,6/1KV | 1x2x1,5 mm ² | 1,8 | 9,5 | 130 | 95 |
| 1011900522 | 1011501522 | FG16XOHM16 | 0,6/1KV | 2x2x1,5 mm ² | 1,8 | 13,7 | 240 | 144 |
| 1011900523 | 1011501523 | FG16XOHM16 | 0,6/1KV | 3x2x1,5 mm ² | 1,8 | 14,3 | 300 | 150 |
| 1011900524 | 1011501524 | FG16XOHM16 | 0,6/1KV | 4x2x1,5 mm ² | 1,8 | 15,7 | 370 | 165 |
| 1011900525 | 1011501525 | FG16XOHM16 | 0,6/1KV | 5x2x1,5 mm ² | 1,8 | 17,1 | 450 | 180 |
| 1011900526 | 1011501526 | FG16XOHM16 | 0,6/1KV | 6x2x1,5 mm ² | 1,8 | 18,6 | 500 | 196 |
| 1011900527 | 1011501527 | FG16XOHM16 | 0,6/1KV | 7x2x1,5 mm ² | 1,8 | 18,8 | 670 | 198 |
| 1011900528 | 1011501528 | FG16XOHM16 | 0,6/1KV | 12x2x1,5 mm ² | 2,0 | 24,7 | 900 | 260 |
| 1011900529 | 1011501529 | FG16XOHM16 | 0,6/1KV | 16x2x1,5 mm ² | 2,0 | 27,6 | 1180 | 290 |
| 1011900530 | 1011501530 | FG16XOHM16 | 0,6/1KV | 24x2x1,5 mm ² | 2,0 | 33,3 | 1630 | 350 |
| 1011900531 | 1011501531 | FG16XHM16 | 0,6/1KV | 1x2x2,5 mm ² | 1,8 | 10,6 | 170 | 106 |
| 1011900532 | 1011501532 | FG16XOHM16 | 0,6/1KV | 2x2x2,5 mm ² | 1,8 | 15,2 | 300 | 160 |

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|------------|------------|------------|---------|---------------------------|-----|------|------|-----|
| 1011900533 | 1011501533 | FG16XOHM16 | 0,6/1KV | 3x2x2,5 mm ² | 1,8 | 16 | 380 | 168 |
| 1011900534 | 1011501534 | FG16XOHM16 | 0,6/1KV | 4x2x2,5 mm ² | 1,8 | 17,5 | 480 | 184 |
| 1011900535 | 1011501535 | FG16XOHM16 | 0,6/1KV | 5x2x2,5 mm ² | 1,8 | 19,6 | 600 | 206 |
| 1011900536 | 1011501536 | FG16XOHM16 | 0,6/1KV | 6x2x2,5 mm ² | 2,0 | 21,9 | 680 | 230 |
| 1011900537 | 1011501537 | FG16XOHM16 | 0,6/1KV | 7x2x2,5 mm ² | 2,0 | 22,2 | 770 | 234 |
| 1011900538 | 1011501538 | FG16XOHM16 | 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 27,6 | 1200 | 290 |
| 1011900539 | 1011501539 | FG16XOHM16 | 0,6/1KV | 16x2x2,5 mm ² | 2,0 | 31 | 1570 | 326 |
| 1011900540 | 1011501540 | FG16XOHM16 | 0,6/1KV | 24x2x2,5 mm ² | 2,0 | 38 | 2200 | 400 |
| 1011900541 | 1011501541 | FG16OHM16 | 0,6/1KV | 1x3x0,75 mm ² | 1,8 | 9 | 130 | 90 |
| 1011900542 | 1011501542 | FG16XOHM16 | 0,6/1KV | 2x3x0,75 mm ² | 1,8 | 14,3 | 240 | 150 |
| 1011900543 | 1011501543 | FG16XOHM16 | 0,6/1KV | 3x3x0,75 mm ² | 1,8 | 15 | 290 | 158 |
| 1011900544 | 1011501544 | FG16XOHM16 | 0,6/1KV | 4x3x0,75 mm ² | 1,8 | 16,4 | 360 | 173 |
| 1011900545 | 1011501545 | FG16XOHM16 | 0,6/1KV | 5x3x0,75 mm ² | 1,8 | 18 | 440 | 189 |
| 1011900546 | 1011501546 | FG16XOHM16 | 0,6/1KV | 6x3x0,75 mm ² | 1,8 | 20 | 500 | 210 |
| 1011900547 | 1011501547 | FG16XOHM16 | 0,6/1KV | 7x3x0,75 mm ² | 1,8 | 20,5 | 560 | 216 |
| 1011900548 | 1011501548 | FG16XOHM16 | 0,6/1KV | 12x3x0,75 mm ² | 2,0 | 25,7 | 880 | 270 |
| 1011900549 | 1011501549 | FG16XOHM16 | 0,6/1KV | 16x3x0,75 mm ² | 2,0 | 28,7 | 1150 | 302 |
| 1011900550 | 1011501550 | FG16XOHM16 | 0,6/1KV | 24x3x0,75 mm ² | 2,0 | 33,3 | 1580 | 350 |
| 1011900551 | 1011501551 | FG16OHM16 | 0,6/1KV | 1x3x1 mm ² | 1,8 | 9,6 | 140 | 96 |
| 1011900552 | 1011501552 | FG16XOHM16 | 0,6/1KV | 2x3x1 mm ² | 1,8 | 14 | 270 | 148 |
| 1011900553 | 1011501553 | FG16XOHM16 | 0,6/1KV | 3x3x1 mm ² | 1,8 | 14,5 | 330 | 153 |
| 1011900554 | 1011501554 | FG16XOHM16 | 0,6/1KV | 4x3x1 mm ² | 1,8 | 16,2 | 410 | 170 |
| 1011900555 | 1011501555 | FG16XOHM16 | 0,6/1KV | 5x3x1 mm ² | 1,8 | 19 | 500 | 200 |
| 1011900556 | 1011501556 | FG16XOHM16 | 0,6/1KV | 6x3x1 mm ² | 1,8 | 20,7 | 560 | 218 |
| 1011900557 | 1011501557 | FG16XOHM16 | 0,6/1KV | 7x3x1 mm ² | 1,8 | 20,9 | 640 | 220 |
| 1011900558 | 1011501558 | FG16XOHM16 | 0,6/1KV | 12x3x1 mm ² | 2,0 | 27,6 | 980 | 290 |
| 1011900559 | 1011501559 | FG16XOHM16 | 0,6/1KV | 16x3x1 mm ² | 2,0 | 30,8 | 1310 | 324 |
| 1011900560 | 1011501560 | FG16XOHM16 | 0,6/1KV | 24x3x1 mm ² | 2,0 | 36,1 | 1770 | 380 |
| 1011900561 | 1011501561 | FG16XOHM16 | 0,6/1KV | 27x3x1 mm ² | 2,0 | 40 | 1940 | 430 |
| 1011900562 | 1011501562 | FG16OHM16 | 0,6/1KV | 1x3x1,5 mm ² | 1,8 | 10 | 160 | 100 |
| 1011900563 | 1011501563 | FG16XOHM16 | 0,6/1KV | 2x3x1,5 mm ² | 1,8 | 16 | 310 | 168 |
| 1011900564 | 1011501564 | FG16XOHM16 | 0,6/1KV | 3x3x1,5 mm ² | 1,8 | 16,9 | 400 | 178 |
| 1011900565 | 1011501565 | FG16XOHM16 | 0,6/1KV | 4x3x1,5 mm ² | 1,8 | 18,5 | 490 | 195 |
| 1011900566 | 1011501566 | FG16XOHM16 | 0,6/1KV | 5x3x1,5 mm ² | 1,8 | 20,3 | 600 | 214 |
| 1011900567 | 1011501567 | FG16XOHM16 | 0,6/1KV | 6x3x1,5 mm ² | 2,0 | 22,8 | 700 | 240 |

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|------------|------------|------------|---------|--------------------------|-----|-------|------|-----|
| 1011900568 | 1011501568 | FG16XOHM16 | 0,6/1KV | 7x3x1,5 mm ² | 2,0 | 23,6 | 800 | 248 |
| 1011900569 | 1011501569 | FG16XOHM16 | 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 29,5 | 1230 | 310 |
| 1011900570 | 1011501570 | FG16XOHM16 | 0,6/1KV | 16x3x1,5 mm ² | 2,0 | 33 | 1600 | 348 |
| 1011900571 | 1011501571 | FG16XOHM16 | 0,6/1KV | 24x3x1,5 mm ² | 2,0 | 40,9 | 2240 | 430 |
| 1011900572 | 1011501572 | FG16OHM16 | 0,6/1KV | 1x3x2,5 mm ² | 1,8 | 11 | 210 | 110 |
| 1011900573 | 1011501573 | FG16XOHM16 | 0,6/1KV | 2x3x2,5 mm ² | 1,8 | 18,01 | 400 | 190 |
| 1011900574 | 1011501574 | FG16XOHM16 | 0,6/1KV | 3x3x2,5 mm ² | 1,8 | 19 | 510 | 200 |
| 1011900575 | 1011701575 | FG16XOHM16 | 0,6/1KV | 4x3x2,5 mm ² | 1,8 | 20,9 | 640 | 220 |
| 1011900576 | 1011501576 | FG16XOHM16 | 0,6/1KV | 6x3x2,5 mm ² | 2,0 | 25,7 | 930 | 270 |
| 1011900577 | 1011501577 | FG16XOHM16 | 0,6/1KV | 12x3x2,5 mm ² | 2,0 | 33,3 | 1140 | 350 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable – 101-2

CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 101-2/23 10/11/2023 Rev. 0

Type: FG16XHOHM16 0,6/1 KV - FG16OHM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

**Pair screen:
(if necessary)** Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XHOHM16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance \leq 0,90 mH/Km
- Capacitance \leq 0,200 μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved Cca s1b,d1,a1

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|---------------------------|--------------------|--------------|-------------------|
| 1012900501 | 1012501501 | FG160HM16 0,6/1KV 1x2x0,75 mm ² | 1,8 | 8,8 | 110 | 88 |
| 1012900502 | 1012501502 | FG16XHOHM16 0,6/1KV 2x2x0,75 mm ² | 1,8 | 12,9 | 200 | 129 |
| 1012900503 | 1012501503 | FG16XHOHM16 0,6/1KV 3x2x0,75 mm ² | 1,8 | 13,6 | 250 | 136 |
| 1012900504 | 1012501504 | FG16XHOHM16 0,6/1KV 4x2x0,7 5mm ² | 1,8 | 14,7 | 300 | 147 |
| 1012900505 | 1012501505 | FG16XHOHM16 0,6/1KV 5x2x0,75 mm ² | 1,8 | 16,1 | 360 | 161 |
| 1012900506 | 1012501506 | FG16XHOHM16 0,6/1KV 6x2x0,75 mm ² | 1,8 | 17,4 | 400 | 174 |
| 1012900507 | 1012501507 | FG16XHOHM16 0,6/1KV 7x2x0,75 mm ² | 1,8 | 17,6 | 450 | 176 |
| 1012900508 | 1012501508 | FG16XHOHM16 0,6/1KV 12x2x0,75 mm ² | 2,0 | 23 | 700 | 230 |
| 1012900509 | 1012501509 | FG16XHOHM16 0,6/1KV 16x2x0,75 mm ² | 2,0 | 25,6 | 910 | 256 |
| 1012900510 | 1012501510 | FG16XHOHM16 0,6/1KV 24x2x0,75 mm ² | 2,0 | 30 | 1250 | 300 |
| 1012900511 | 1012501511 | FG160HM16 0,6/1KV 1x2x1 mm ² | 1,8 | 9 | 120 | 90 |
| 1012900512 | 1012501512 | FG16XHOHM16 0,6/1KV 2x2x1 mm ² | 1,8 | 13,5 | 220 | 135 |
| 1012900513 | 1012501513 | FG16XHOHM16 0,6/1KV 3x2x1 mm ² | 1,8 | 14 | 270 | 140 |
| 1012900514 | 1012501514 | FG16XHOHM16 0,6/1KV 4x2x1 mm ² | 1,8 | 15,5 | 330 | 155 |
| 1012900515 | 1012501515 | FG16XHOHM16 0,6/1KV 5x2x1 mm ² | 1,8 | 16,8 | 400 | 168 |
| 1012900516 | 1012501516 | FG16XHOHM16 0,6/1KV 6x2x1 mm ² | 1,8 | 18,4 | 250 | 184 |
| 1012900517 | 1012501517 | FG16XHOHM16 0,6/1KV 7x2x1 mm ² | 1,8 | 18,6 | 500 | 186 |
| 1012900518 | 1012501518 | FG16XHOHM16 0,6/1KV 12x2x1 mm ² | 2,0 | 24 | 800 | 240 |
| 1012900519 | 1012501519 | FG16XHOHM16 0,6/1KV 16x2x1 mm ² | 2,0 | 27 | 1030 | 270 |
| 1012900520 | 1012501520 | FG16XHOHM16 0,6/1KV 24x2x1 mm ² | 2,0 | 32,5 | 1420 | 325 |
| 1012900521 | 1012501521 | FG160HM16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 9,5 | 130 | 95 |
| 1012900522 | 1012501522 | FG16XHOHM16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 14,4 | 250 | 144 |
| 1012900523 | 1012501523 | FG16XHOHM16 0,6/1KV 3x2x1,5 mm ² | 1,8 | 15 | 320 | 150 |
| 1012900524 | 1012501524 | FG16XHOHM16 0,6/1KV 4x2x1,5 mm ² | 1,8 | 16,5 | 390 | 165 |
| 1012900525 | 1012501525 | FG16XHOHM16 0,6/1KV 5x2x1,5 mm ² | 1,8 | 18 | 470 | 180 |
| 1012900526 | 1012501526 | FG16XHOHM16 0,6/1KV 6x2x1,5 mm ² | 1,8 | 19,6 | 530 | 196 |
| 1012900527 | 1012501527 | FG16XHOHM16 0,6/1KV 7x2x1,5 mm ² | 1,8 | 19,8 | 600 | 198 |
| 1012900528 | 1012501528 | FG16XHOHM16 0,6/1KV 12x2x1,5 mm ² | 2,0 | 26 | 950 | 260 |
| 1012900529 | 1012501529 | FG16XHOHM16 0,6/1KV 16x2x1,5 mm ² | 2,0 | 29 | 1240 | 290 |
| 1012900530 | 1012501530 | FG16XHOHM16 0,6/1KV 24x2x1,5 mm ² | 2,0 | 35 | 1720 | 350 |
| 1012900531 | 1012501531 | FG16XHM16 0,6/1KV 1x2x2,5 mm ² | 1,8 | 10,6 | 170 | 106 |
| 1012900532 | 1012501532 | FG16XHOHM16 0,6/1KV 2x2x2,5 mm ² | 1,8 | 16 | 320 | 160 |

| | | | | | | | | |
|------------|------------|-------------|---------|---------------------------|-----|------|------|-----|
| 1012900533 | 1012501533 | FG16XHOHM16 | 0,6/1KV | 3x2x2,5 mm ² | 1,8 | 16,8 | 400 | 168 |
| 1012900534 | 1012501534 | FG16XHOHM16 | 0,6/1KV | 4x2x2,5 mm ² | 1,8 | 18,4 | 500 | 184 |
| 1012900535 | 1012501535 | FG16XHOHM16 | 0,6/1KV | 5x2x2,5 mm ² | 1,8 | 20,6 | 630 | 206 |
| 1012900536 | 1012501536 | FG16XHOHM16 | 0,6/1KV | 6x2x2,5 mm ² | 2,0 | 23 | 720 | 230 |
| 1012900537 | 1012501537 | FG16XHOHM16 | 0,6/1KV | 7x2x2,5 mm ² | 2,0 | 23,4 | 810 | 234 |
| 1012900538 | 1012501538 | FG16XHOHM16 | 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 29 | 1260 | 290 |
| 1012900539 | 1012501539 | FG16XHOHM16 | 0,6/1KV | 16x2x2,5 mm ² | 2,0 | 32,6 | 1650 | 326 |
| 1012900540 | 1012501540 | FG16XHOHM16 | 0,6/1KV | 24x2x2,5 mm ² | 2,0 | 40 | 2300 | 400 |
| 1012900541 | 1012501541 | FG16OHM16 | 0,6/1KV | 1x3x0,75 mm ² | 1,8 | 9 | 130 | 90 |
| 1012900542 | 1012501542 | FG16XHOHM16 | 0,6/1KV | 2x3x0,75 mm ² | 1,8 | 15 | 250 | 150 |
| 1012900543 | 1012501543 | FG16XHOHM16 | 0,6/1KV | 3x3x0,75 mm ² | 1,8 | 15,8 | 310 | 158 |
| 1012900544 | 1012501544 | FG16XHOHM16 | 0,6/1KV | 4x3x0,75 mm ² | 1,8 | 17,3 | 380 | 173 |
| 1012900545 | 1012501545 | FG16XHOHM16 | 0,6/1KV | 5x3x0,75 mm ² | 1,8 | 18,9 | 460 | 189 |
| 1012900546 | 1012501546 | FG16XHOHM16 | 0,6/1KV | 6x3x0,75 mm ² | 1,8 | 21 | 520 | 210 |
| 1012900547 | 1012501547 | FG16XHOHM16 | 0,6/1KV | 7x3x0,75 mm ² | 1,8 | 21,6 | 590 | 216 |
| 1012900548 | 1012501548 | FG16XHOHM16 | 0,6/1KV | 12x3x0,75 mm ² | 2,0 | 27 | 930 | 270 |
| 1012900549 | 1012501549 | FG16XHOHM16 | 0,6/1KV | 16x3x0,75 mm ² | 2,0 | 30,2 | 1210 | 302 |
| 1012900550 | 1012501550 | FG16XHOHM16 | 0,6/1KV | 24x3x0,75 mm ² | 2,0 | 35 | 1660 | 350 |
| 1012900551 | 1012501551 | FG16OHM16 | 0,6/1KV | 1x3x1 mm ² | 1,8 | 9,6 | 140 | 96 |
| 1012900552 | 1012501552 | FG16XHOHM16 | 0,6/1KV | 2x3x1 mm ² | 1,8 | 14,8 | 280 | 148 |
| 1012900553 | 1012501553 | FG16XHOHM16 | 0,6/1KV | 3x3x1 mm ² | 1,8 | 15,3 | 350 | 153 |
| 1012900554 | 1012501554 | FG16XHOHM16 | 0,6/1KV | 4x3x1 mm ² | 1,8 | 17 | 430 | 170 |
| 1012900555 | 1012501555 | FG16XHOHM16 | 0,6/1KV | 5x3x1 mm ² | 1,8 | 20 | 520 | 200 |
| 1012900556 | 1012501556 | FG16XHOHM16 | 0,6/1KV | 6x3x1 mm ² | 1,8 | 21,8 | 590 | 218 |
| 1012900557 | 1012501557 | FG16XHOHM16 | 0,6/1KV | 7x3x1 mm ² | 1,8 | 22 | 670 | 220 |
| 1012900558 | 1012501558 | FG16XHOHM16 | 0,6/1KV | 12x3x1 mm ² | 2,0 | 29 | 1030 | 290 |
| 1012900559 | 1012501559 | FG16XHOHM16 | 0,6/1KV | 16x3x1 mm ² | 2,0 | 32,4 | 1380 | 324 |
| 1012900560 | 1012501560 | FG16XHOHM16 | 0,6/1KV | 24x3x1 mm ² | 2,0 | 38 | 1860 | 380 |
| 1012900561 | 1012501561 | FG16XHOHM16 | 0,6/1KV | 27x3x1 mm ² | 2,0 | 42 | 2040 | 430 |
| 1012900562 | 1012501562 | FG16OHM16 | 0,6/1KV | 1x3x1,5 mm ² | 1,8 | 10 | 160 | 100 |
| 1012900563 | 1012501563 | FG16XHOHM16 | 0,6/1KV | 2x3x1,5 mm ² | 1,8 | 16,8 | 330 | 168 |
| 1012900564 | 1012501564 | FG16XHOHM16 | 0,6/1KV | 3x3x1,5 mm ² | 1,8 | 17,8 | 420 | 178 |
| 1012900565 | 1012501565 | FG16XHOHM16 | 0,6/1KV | 4x3x1,5 mm ² | 1,8 | 19,5 | 510 | 195 |
| 1012900566 | 1012501566 | FG16XHOHM16 | 0,6/1KV | 5x3x1,5 mm ² | 1,8 | 21,4 | 630 | 214 |
| 1012900567 | 1012501567 | FG16XHOHM16 | 0,6/1KV | 6x3x1,5 mm ² | 2,0 | 24 | 740 | 240 |

| | | | | | | | | |
|------------|------------|-------------|---------|--------------------------|-----|------|------|-----|
| 1012900568 | 1012501568 | FG16XHOHM16 | 0,6/1KV | 7x3x1,5 mm ² | 2,0 | 24,8 | 840 | 248 |
| 1012900569 | 1012501569 | FG16XHOHM16 | 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 31 | 1290 | 310 |
| 1012900570 | 1012501570 | FG16XHOHM16 | 0,6/1KV | 16x3x1,5 mm ² | 2,0 | 34,8 | 1690 | 348 |
| 1012900571 | 1012501571 | FG16XHOHM16 | 0,6/1KV | 24x3x1,5 mm ² | 2,0 | 43 | 2360 | 430 |
| 1012900572 | 1012501572 | FG16OHM16 | 0,6/1KV | 1x3x2,5 mm ² | 1,8 | 11 | 210 | 110 |
| 1012900573 | 1012501573 | FG16XHOHM16 | 0,6/1KV | 2x3x2,5 mm ² | 1,8 | 19 | 420 | 190 |
| 1012900574 | 1012501574 | FG16XHOHM16 | 0,6/1KV | 3x3x2,5 mm ² | 1,8 | 20 | 540 | 200 |
| 1012900575 | 1012701575 | FG16XHOHM16 | 0,6/1KV | 4x3x2,5 mm ² | 1,8 | 22 | 670 | 220 |
| 1012900576 | 1012501576 | FG16XHOHM16 | 0,6/1KV | 6x3x2,5 mm ² | 2,0 | 27 | 980 | 270 |
| 1012900577 | 1012501577 | FG16XHOHM16 | 0,6/1KV | 12x3x2,5 mm ² | 2,0 | 35 | 1750 | 350 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable – 102-1

CPR EU 305/2011

Conductor, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH

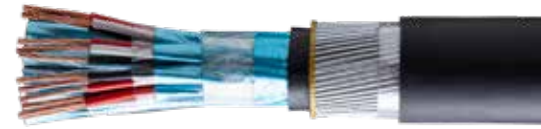
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 102-1/23 of 10/11/2023 Rev. 0

Type: FG16XOHM16AM16 0,6/1KV, FG16OHM16AM16 0M6/1Kv

Conductor: Flexible metal conductor according to IEC 60228

Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XOHM16AM16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CE I20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- CPR approved Cca s1b,d1,a1
- Cable for intrinsically safe application
- Inductance <= 0,90 mH/Km
- Capacitance /= 0,200 µF/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETE R MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|--|------------------------|------------------------|---------------------|--------------|-------------------|
| 1021900501 | 1021501501 | FG16OHM16AM16 0,6/1KV 1x2x0,75 mm ² | 7 | 1,8 | 11,8 | 230 | 160 |
| 1021900502 | 1021501502 | FG16XOHM16AM16 0,6/1KV 2x2x0,75 mm ² | 11,4 | 1,8 | 15,1 | 350 | 220 |
| 1021900503 | 1021501503 | FG16XOHM16AM16 0,6/1KV 3x2x0,75 mm ² | 12 | 1,8 | 15,5 | 410 | 230 |
| 1021900504 | 1021501504 | FG16XOHM16AM16 0,6/1KV 4x2x0,75 mm ² | 13,2 | 1,8 | 16,6 | 480 | 250 |
| 1021900505 | 1021501505 | FG16XOHM16AM16 0,6/1KV 5x2x0,75 mm ² | 14,5 | 1,8 | 18,4 | 560 | 280 |
| 1021900506 | 1021501506 | FG16XOHM16AM16 0,6/1KV 6x2x0,75 mm ² | 16 | 1,8 | 19,1 | 630 | 290 |
| 1021900507 | 1021501507 | FG16XOHM16AM16 0,6/1KV 7x2x0,75 mm ² | 16,2 | 1,8 | 19,7 | 670 | 310 |
| 1021900508 | 1021501508 | FG16XOHM16AM16 0,6/1KV 12x2x0,75 mm ² | 21,4 | 2,0 | 24 | 1000 | 360 |
| 1021900509 | 1021501509 | FG16XOHM16AM16 0,6/1KV 16x2x0,75 mm ² | 23,6 | 2,0 | 27,2 | 1270 | 420 |
| 1021900510 | 1021501510 | FG16XOHM16AM16 0,6/1KV 24x2x0,75 mm ² | 30 | 2,0 | 31,3 | 1700 | 470 |
| 1021900511 | 1021501511 | FG16OHM16AM16 0,6/1KV 1x2x1 mm ² | 7,6 | 1,8 | 12,4 | 250 | 170 |
| 1021900512 | 1021501512 | FG16XOHM16AM16 0,6/1KV 2x2x1 mm ² | 12 | 1,8 | 15,5 | 380 | 230 |
| 1021900513 | 1021501513 | FG16XOHM16AM16 0,6/1KV 3x2x1 mm ² | 12,7 | 1,8 | 16,1 | 450 | 250 |
| 1021900514 | 1021501514 | FG16XOHM16AM16 0,6/1KV 4x2x1 mm ² | 14 | 1,8 | 17,5 | 520 | 270 |
| 1021900515 | 1021501515 | FG16XOHM16AM16 0,6/1KV 5x2x1 mm ² | 15,4 | 1,8 | 19,1 | 620 | 300 |
| 1021900516 | 1021501516 | FG16XOHM16AM16 0,6/1KV 6x2x1 mm ² | 17 | 1,8 | 20,2 | 690 | 310 |
| 1021900517 | 1021501517 | FG16XOHM16AM16 0,6/1KV 7x2x1 mm ² | 16,8 | 1,8 | 20,6 | 750 | 320 |
| 1021900518 | 1021501518 | FG16XOHM16AM16 0,6/1KV 12x2x1 mm ² | 23 | 2,0 | 25,8 | 1110 | 390 |
| 1021900519 | 1021501519 | FG16XOHM16AM16 0,6/1KV 16x2x1 mm ² | 25 | 2,0 | 28,5 | 1410 | 430 |
| 1021900520 | 1021501520 | FG16XOHM16AM16 0,6/1KV 24x2x1 mm ² | 31,4 | 2,0 | 33,1 | 1900 | 500 |
| 1021900521 | 1021501521 | FG16OHM16AM16 0,6/1KV 1x2x1,5 mm ² | 8 | 1,8 | 12,8 | 280 | 180 |
| 1021900522 | 1021501522 | FG16XOHM16AM16 0,6/1KV 2x2x1,5 mm ² | 12,8 | 1,8 | 16,4 | 420 | 250 |
| 1021900523 | 1021501523 | FG16XOHM16AM16 0,6/1KV 3x2x1,5 mm ² | 13,8 | 1,8 | 17 | 500 | 260 |
| 1021900524 | 1021501524 | FG16XOHM16AM16 0,6/1KV 4x2x1,5 mm ² | 15 | 1,8 | 18,4 | 600 | 280 |
| 1021900525 | 1021501525 | FG16XOHM16AM16 0,6/1KV 5x2x1,5 mm ² | 16,6 | 1,8 | 20,2 | 710 | 310 |
| 1021900526 | 1021501526 | FG16XOHM16AM16 0,6/1KV 6x2x1,5 mm ² | 18 | 1,8 | 21 | 790 | 330 |
| 1021900527 | 1021501527 | FG16XOHM16AM16 0,6/1KV 7x2x1,5 mm ² | 18,4 | 1,8 | 21,8 | 860 | 340 |
| 1021900528 | 1021501528 | FG16XOHM16AM16 0,6/1KV 12x2x1,5 mm ² | 24,6 | 2,0 | 27,4 | 1320 | 420 |
| 1021900529 | 1021501529 | FG16XOHM16AM16 0,6/1KV 16x2x1,5 mm ² | 27 | 2,0 | 30,4 | 1670 | 460 |
| 1021900530 | 1021501530 | FG16XOHM16AM16 0,6/1KV 24x2x1,5 mm ² | 34 | 2,0 | 34,6 | 2270 | 530 |
| 1021900531 | 1021501531 | FG16XHM16AM16 0,6/1KV 1x2x2,5 mm ² | 9 | 1,8 | 13,8 | 326 | 220 |
| 1021900532 | 1021501532 | FG16XOHM16AM16 0,6/1KV 2x2x2,5 mm ² | 14,4 | 1,8 | 17,8 | 510 | 280 |
| 1021900533 | 1021501533 | FG16XOHM16AM16 0,6/1KV 3x2x2,5 mm ² | 15,6 | 1,8 | 19,1 | 620 | 300 |
| 1021900534 | 1021501534 | FG16XOHM16AM16 0,6/1KV 4x2x2,5 mm ² | 17 | 1,8 | 20,2 | 750 | 310 |
| 1021900535 | 1021501535 | FG16XOHM16AM16 0,6/1KV 5x2x2,5 mm ² | 18,6 | 1,8 | 22,6 | 910 | 350 |
| 1021900536 | 1021501536 | FG16XOHM16AM16 0,6/1KV 6x2x2,5 mm ² | 21 | 1,8 | 23,4 | 1000 | 360 |

| | | | | | | | | | |
|------------|------------|----------------|---------|---------------------------|------|-----|------|------|-----|
| 1021900537 | 1021501537 | FG16XOHM16AM16 | 0,6/1KV | 7x2x2,5 mm ² | 21,5 | 2,0 | 24,3 | 1130 | 380 |
| 1021900538 | 1021501538 | FG16XOHM16AM16 | 0,6/1KV | 12x2x2,5 mm ² | 27,3 | 2,0 | 30 | 1680 | 460 |
| 1021900539 | 1021501539 | FG16XOHM16AM16 | 0,6/1KV | 16x2x2,5 mm ² | 31 | 2,0 | 33,5 | 2170 | 520 |
| 1021900540 | 1021501540 | FG16XOHM16AM16 | 0,6/1KV | 24x2x2,5 mm ² | 38 | 2,0 | 39,6 | 3000 | 600 |
| 1021900541 | 1021501541 | FG16OHM16AM16 | 0,6/1KV | 1x3x0,75 mm ² | 7,6 | 1,8 | 12,4 | 260 | 170 |
| 1021900542 | 1021501542 | FG16XOHM16AM16 | 0,6/1KV | 2x3x0,75 mm ² | 13,5 | 1,8 | 17 | 430 | 270 |
| 1021900543 | 1021501543 | FG16XOHM16AM16 | 0,6/1KV | 3x3x0,75 mm ² | 14,5 | 1,8 | 18,2 | 510 | 280 |
| 1021900544 | 1021501544 | FG16XOHM16AM16 | 0,6/1KV | 4x3x0,75 mm ² | 15,8 | 1,8 | 19,8 | 600 | 290 |
| 1021900545 | 1021501545 | FG16XOHM16AM16 | 0,6/1KV | 5x3x0,75 mm ² | 17,3 | 1,8 | 21,7 | 710 | 320 |
| 1021900546 | 1021501546 | FG16XOHM16AM16 | 0,6/1KV | 6x3x0,75 mm ² | 19,2 | 1,8 | 22 | 790 | 340 |
| 1021900547 | 1021501547 | FG16XOHM16AM16 | 0,6/1KV | 7x3x0,75 mm ² | 19,5 | 2,0 | 22,6 | 860 | 350 |
| 1021900548 | 1021501548 | FG16XOHM16AM16 | 0,6/1KV | 12x3x0,75 mm ² | 25,8 | 2,0 | 28,2 | 1290 | 440 |
| 1021900549 | 1021501549 | FG16XOHM16AM16 | 0,6/1KV | 16x3x0,75 mm ² | 28,5 | 2,0 | 31,6 | 1660 | 490 |
| 1021900550 | 1021501550 | FG16XOHM16AM16 | 0,6/1KV | 24x3x0,75 mm ² | 35,6 | 2,0 | 33 | 2230 | 500 |
| 1021900551 | 1021501551 | FG16OHM16AM16 | 0,6/1KV | 1x3x1 mm ² | 8 | 1,8 | 13,2 | 290 | 180 |
| 1021900552 | 1021501552 | FG16XOHM16AM16 | 0,6/1KV | 2x3x1 mm ² | 14,3 | 1,8 | 18 | 480 | 280 |
| 1021900553 | 1021501553 | FG16XOHM16AM16 | 0,6/1KV | 3x3x1 mm ² | 15,2 | 1,8 | 19 | 570 | 300 |
| 1021900554 | 1021501554 | FG16XOHM16AM16 | 0,6/1KV | 4x3x1 mm ² | 16,6 | 1,8 | 20,4 | 670 | 310 |
| 1021900555 | 1021501555 | FG16XOHM16AM16 | 0,6/1KV | 5x3x1 mm ² | 18,4 | 1,8 | 22 | 780 | 340 |
| 1021900556 | 1021501556 | FG16XOHM16AM16 | 0,6/1KV | 6x3x1 mm ² | 20 | 2,0 | 23,7 | 890 | 370 |
| 1021900557 | 1021501557 | FG16XOHM16AM16 | 0,6/1KV | 7x3x1 mm ² | 20,2 | 2,0 | 24 | 990 | 370 |
| 1021900558 | 1021501558 | FG16XOHM16AM16 | 0,6/1KV | 12x3x1 mm ² | 27 | 2,0 | 30,4 | 1500 | 460 |
| 1021900559 | 1021501559 | FG16XOHM16AM16 | 0,6/1KV | 16x3x1 mm ² | 30 | 2,0 | 33 | 1870 | 500 |
| 1021900560 | 1021501560 | FG16XOHM16AM16 | 0,6/1KV | 24x3x1 mm ² | 37 | 2,0 | 40 | 2600 | 600 |
| 1021900561 | 1021501561 | FG16OM16AM16 | 0,6/1KV | 1x3x1,5 mm ² | 8,5 | 1,8 | 13,3 | 320 | 180 |
| 1021900562 | 1021501562 | FG16XOHM16AM16 | 0,6/1KV | 2x3x1,5 mm ² | 15,4 | 1,8 | 19 | 530 | 300 |
| 1021900563 | 1021501563 | FG16XOHM16AM16 | 0,6/1KV | 3x3x1,5 mm ² | 16,6 | 1,8 | 19,7 | 640 | 310 |
| 1021900564 | 1021501564 | FG16XOHM16AM16 | 0,6/1KV | 4x3x1,5 mm ² | 18 | 1,8 | 21,1 | 770 | 320 |
| 1021900565 | 1021501565 | FG16XOHM16AM16 | 0,6/1KV | 5x3x1,5 mm ² | 19,8 | 1,8 | 23,3 | 910 | 360 |
| 1021900566 | 1021501566 | FG16XOHM16AM16 | 0,6/1KV | 6x3x1,5 mm ² | 22 | 1,8 | 24,8 | 1040 | 380 |
| 1021900567 | 1021501567 | FG16XOHM16AM16 | 0,6/1KV | 7x3x1,5 mm ² | 22,2 | 2,0 | 25,6 | 1180 | 390 |
| 1021900568 | 1021501568 | FG16XOHM16AM16 | 0,6/1KV | 12x3x1,5 mm ² | 30 | 2,0 | 31,2 | 1740 | 480 |
| 1021900569 | 1021501569 | FG16XOHM16AM16 | 0,6/1KV | 16x3x1,5 mm ² | 33 | 2,0 | 35,2 | 2290 | 520 |
| 1021900570 | 1021501570 | FG16XOHM16AM16 | 0,6/1KV | 24x3x1,5 mm ² | 41 | 2,0 | 42,8 | 3080 | 630 |
| 1021900571 | 1021501571 | FG16OHM16AM16 | 0,6/1KV | 1x3x2,5 mm ² | 9,5 | 1,8 | 14,4 | 380 | 210 |
| 1021900572 | 1021501572 | FG16XOHM16AM16 | 0,6/1KV | 2x3x2,5 mm ² | 17,6 | 1,8 | 20,6 | 650 | 320 |
| 1021900573 | 1021501573 | FG16XOHM16AM16 | 0,6/1KV | 3x3x2,5 mm ² | 18,6 | 1,8 | 21,7 | 810 | 340 |
| 1021900574 | 1021501574 | FG16XOHM16AM16 | 0,6/1KV | 4x3x2,5 mm ² | 20,4 | 1,8 | 23,5 | 980 | 360 |

| | | | | | | | | | |
|------------|------------|----------------|---------|--------------------------|------|-----|------|------|-----|
| 1021900575 | 1021501575 | FG16XOHM16AM16 | 0,6/1KV | 5x3x2,5 mm ² | 22,5 | 1,8 | 25,8 | 1160 | 390 |
| 1021900576 | 1021501576 | FG16XOHM16AM16 | 0,6/1KV | 6x3x2,5 mm ² | 25 | 2,0 | 27,6 | 1330 | 420 |
| 1021900577 | 1021501577 | FG16XOHM16AM16 | 0,6/1KV | 12x3x2,5 mm ² | 33,5 | 2,0 | 35 | 2290 | 530 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable – 102-2

CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

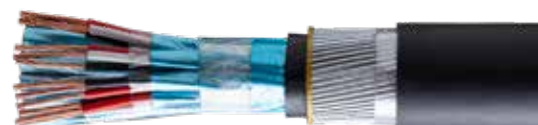
Technical Specifications n° 102-2/23 of 10/15/2023 Rev. 0

Type: FG16XHOHM16AM16 0,6/1KV, FG16OHM16AM16 0M6/1Kv

Conductor: Flexible metal conductor according to IEC 60228

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

Pair screen: (if necessary) Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% Coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XHOHM16AM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CE I20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- CPR approved Cca s1b,d1,a1
- Cable for intrinsically safe application

- Inductance \leq 0,90 mH/Km
- Capacitance \leq 0,200 μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------|------------------------|--------------------|--------------|-------------------|
| 1022900501 | 1022501501 | FG16OHM16AM16 0,6/1KV 1x2x0,75 mm ² | 7 | 1,8 | 11,8 | 230 | 160 |
| 1022900502 | 1022501502 | FG16XHOHM16AM16 0,6/1KV 2x2x0,75 mm ² | 11,4 | 1,8 | 16,4 | 380 | 220 |
| 1022900503 | 1022501503 | FG16XHOHM16AM16 0,6/1KV 3x2x0,75 mm ² | 12 | 1,8 | 16,8 | 450 | 230 |
| 1022900504 | 1022501504 | FG16XHOHM16AM16 0,6/1KV 4x2x0,75 mm ² | 13,2 | 1,8 | 18 | 520 | 250 |
| 1022900505 | 1022501505 | FG16XHOHM16AM16 0,6/1KV 5x2x0,75 mm ² | 14,5 | 1,8 | 20 | 610 | 280 |
| 1022900506 | 1022501506 | FG16XHOHM16AM16 0,6/1KV 6x2x0,75 mm ² | 16 | 1,8 | 20,8 | 680 | 290 |
| 1022900507 | 1022501507 | FG16XHOHM16AM16 0,6/1KV 7x2x0,75 mm ² | 16,2 | 1,8 | 21,4 | 730 | 310 |
| 1022900508 | 1022501508 | FG16XHOHM16AM16 0,6/1KV 12x2x0,75 mm ² | 21,4 | 2,0 | 26 | 1080 | 360 |
| 1022900509 | 1022501509 | FG16XHOHM16AM16 0,6/1KV 16x2x0,75 mm ² | 23,6 | 2,0 | 29,6 | 1380 | 420 |
| 1022900510 | 1022501510 | FG16XHOHM16AM16 0,6/1KV 24x2x0,75 mm ² | 30 | 2,0 | 34 | 1840 | 470 |
| 1022900511 | 1022501511 | FG16OHM16AM16 0,6/1KV 1x2x1 mm ² | 7,6 | 1,8 | 12,4 | 250 | 170 |
| 1022900512 | 1022501512 | FG16XHOHM16AM16 0,6/1KV 2x2x1 mm ² | 12 | 1,8 | 16,8 | 410 | 230 |
| 1022900513 | 1022501513 | FG16XHOHM16AM16 0,6/1KV 3x2x1 mm ² | 12,7 | 1,8 | 17,5 | 490 | 250 |
| 1022900514 | 1022501514 | FG16XHOHM16AM16 0,6/1KV 4x2x1 mm ² | 14 | 1,8 | 19 | 570 | 270 |
| 1022900515 | 1022501515 | FG16XHOHM16AM16 0,6/1KV 5x2x1 mm ² | 15,4 | 1,8 | 20,8 | 670 | 300 |
| 1022900516 | 1022501516 | FG16XHOHM16AM16 0,6/1KV 6x2x1 mm ² | 17 | 1,8 | 22 | 750 | 310 |
| 1022900517 | 1022501517 | FG16XHOHM16AM16 0,6/1KV 7x2x1 mm ² | 16,8 | 1,8 | 22,4 | 810 | 320 |
| 1022900518 | 1022501518 | FG16XHOHM16AM16 0,6/1KV 12x2x1 mm ² | 23 | 2,0 | 28 | 1210 | 390 |
| 1022900519 | 1022501519 | FG16XHOHM16AM16 0,6/1KV 16x2x1 mm ² | 25 | 2,0 | 31 | 1540 | 430 |
| 1022900520 | 1022501520 | FG16XHOHM16AM16 0,6/1KV 24x2x1 mm ² | 31,4 | 2,0 | 36 | 2070 | 500 |
| 1022900521 | 1022501521 | FG16OHM16AM16 0,6/1KV 1x2x1,5 mm ² | 8 | 1,8 | 12,8 | 280 | 180 |
| 1022900522 | 1022501522 | FG16XHOHM16AM16 0,6/1KV 2x2x1,5 mm ² | 12,8 | 1,8 | 17,8 | 460 | 250 |
| 1022900523 | 1022501523 | FG16XHOHM16AM16 0,6/1KV 3x2x1,5 mm ² | 13,8 | 1,8 | 18,5 | 550 | 260 |
| 1022900524 | 1022501524 | FG16XHOHM16AM16 0,6/1KV 4x2x1,5 mm ² | 15 | 1,8 | 20 | 650 | 280 |
| 1022900525 | 1022501525 | FG16XHOHM16AM16 0,6/1KV 5x2x1,5 mm ² | 16,6 | 1,8 | 22 | 770 | 310 |
| 1022900526 | 1022501526 | FG16XHOHM16AM16 0,6/1KV 6x2x1,5 mm ² | 18 | 1,8 | 23 | 860 | 330 |
| 1022900527 | 1022501527 | FG16XHOHM16AM16 0,6/1KV 7x2x1,5 mm ² | 18,4 | 1,8 | 23,7 | 940 | 340 |
| 1022900528 | 1022501528 | FG16XHOHM16AM16 0,6/1KV 12x2x1,5 mm ² | 24,6 | 2,0 | 29,8 | 1440 | 420 |
| 1022900529 | 1022501529 | FG16XHOHM16AM16 0,6/1KV 16x2x1,5 mm ² | 27 | 2,0 | 33 | 1820 | 460 |
| 1022900530 | 1022501530 | FG16XHOHM16AM16 0,6/1KV 24x2x1,5 mm ² | 34 | 2,0 | 37,6 | 2470 | 530 |
| 1022900531 | 1022501531 | FG16XHM16AM16 0,6/1KV 1x2x2,5 mm ² | 9 | 1,8 | 13,8 | 326 | 220 |
| 1022900532 | 1022501532 | FG16XHOHM16AM16 0,6/1KV 2x2x2,5 mm ² | 14,4 | 1,8 | 19,4 | 560 | 280 |

| | | | | | | | | | |
|------------|------------|-----------------|---------|---------------------------|------|-----|------|------|-----|
| 1022900533 | 1022501533 | FG16XHOHM16AM16 | 0,6/1KV | 3x2x2,5 mm ² | 15,6 | 1,8 | 20,8 | 670 | 300 |
| 1022900534 | 1022501534 | FG16XHOHM16AM16 | 0,6/1KV | 4x2x2,5 mm ² | 17 | 1,8 | 22 | 810 | 310 |
| 1022900535 | 1022501535 | FG16XHOHM16AM16 | 0,6/1KV | 5x2x2,5 mm ² | 18,6 | 1,8 | 24,6 | 990 | 350 |
| 1022900536 | 1022501536 | FG16XHOHM16AM16 | 0,6/1KV | 6x2x2,5 mm ² | 21 | 1,8 | 25,4 | 1090 | 360 |
| 1022900537 | 1022501537 | FG16XHOHM16AM16 | 0,6/1KV | 7x2x2,5 mm ² | 21,5 | 2,0 | 26,4 | 1230 | 380 |
| 1022900538 | 1022501538 | FG16XHOHM16AM16 | 0,6/1KV | 12x2x2,5 mm ² | 27,3 | 2,0 | 32,4 | 1830 | 460 |
| 1022900539 | 1022501539 | FG16XHOHM16AM16 | 0,6/1KV | 16x2x2,5 mm ² | 31 | 2,0 | 36,5 | 2360 | 520 |
| 1022900540 | 1022501540 | FG16XHOHM16AM16 | 0,6/1KV | 24x2x2,5 mm ² | 38 | 2,0 | 43 | 3260 | 600 |
| 1022900541 | 1022501541 | FG16OHM16AM16 | 0,6/1KV | 1x3x0,75 mm ² | 7,6 | 1,8 | 12,4 | 260 | 170 |
| 1022900542 | 1022501542 | FG16XHOHM16AM16 | 0,6/1KV | 2x3x0,75 mm ² | 13,5 | 1,8 | 18,5 | 470 | 270 |
| 1022900543 | 1022501543 | FG16XHOHM16AM16 | 0,6/1KV | 3x3x0,75 mm ² | 14,5 | 1,8 | 19,2 | 550 | 280 |
| 1022900544 | 1022501544 | FG16XHOHM16AM16 | 0,6/1KV | 4x3x0,75 mm ² | 15,8 | 1,8 | 20,8 | 650 | 290 |
| 1022900545 | 1022501545 | FG16XHOHM16AM16 | 0,6/1KV | 5x3x0,75 mm ² | 17,3 | 1,8 | 22,8 | 770 | 320 |
| 1022900546 | 1022501546 | FG16XHOHM16AM16 | 0,6/1KV | 6x3x0,75 mm ² | 19,2 | 1,8 | 24 | 860 | 340 |
| 1022900547 | 1022501547 | FG16XHOHM16AM16 | 0,6/1KV | 7x3x0,75 mm ² | 19,5 | 2,0 | 24,6 | 940 | 350 |
| 1022900548 | 1022501548 | FG16XHOHM16AM16 | 0,6/1KV | 12x3x0,75 mm ² | 25,8 | 2,0 | 30,7 | 1400 | 440 |
| 1022900549 | 1022501549 | FG16XHOHM16AM16 | 0,6/1KV | 16x3x0,75 mm ² | 28,5 | 2,0 | 34,4 | 1800 | 490 |
| 1022900550 | 1022501550 | FG16XHOHM16AM16 | 0,6/1KV | 24x3x0,75 mm ² | 35,6 | 2,0 | 36 | 2420 | 500 |
| 1022900551 | 1022501551 | FG16OHM16AM16 | 0,6/1KV | 1x3x1 mm ² | 8 | 1,8 | 13,2 | 290 | 180 |
| 1022900552 | 1022501552 | FG16XHOHM16AM16 | 0,6/1KV | 2x3x1 mm ² | 14,3 | 1,8 | 19,6 | 520 | 280 |
| 1022900553 | 1022501553 | FG16XHOHM16AM16 | 0,6/1KV | 3x3x1 mm ² | 15,2 | 1,8 | 20,6 | 620 | 300 |
| 1022900554 | 1022501554 | FG16XHOHM16AM16 | 0,6/1KV | 4x3x1 mm ² | 16,6 | 1,8 | 22,2 | 730 | 310 |
| 1022900555 | 1022501555 | FG16XHOHM16AM16 | 0,6/1KV | 5x3x1 mm ² | 18,4 | 1,8 | 24 | 850 | 340 |
| 1022900556 | 1022501556 | FG16XHOHM16AM16 | 0,6/1KV | 6x3x1 mm ² | 20 | 2,0 | 25,8 | 970 | 370 |
| 1022900557 | 1022501557 | FG16XHOHM16AM16 | 0,6/1KV | 7x3x1 mm ² | 20,2 | 2,0 | 26 | 1080 | 370 |
| 1022900558 | 1022501558 | FG16XHOHM16AM16 | 0,6/1KV | 12x3x1 mm ² | 27 | 2,0 | 33 | 1640 | 460 |
| 1022900559 | 1022501559 | FG16XHOHM16AM16 | 0,6/1KV | 16x3x1 mm ² | 30 | 2,0 | 36 | 2030 | 500 |
| 1022900560 | 1022501560 | FG16XHOHM16AM16 | 0,6/1KV | 24x3x1 mm ² | 37 | 2,0 | 43 | 2840 | 600 |
| 1022900561 | 1022501561 | FG16OM16AM16 | 0,6/1KV | 1x3x1,5 mm ² | 8,5 | 1,8 | 13,3 | 320 | 180 |
| 1022900562 | 1022501562 | FG16XHOHM16AM16 | 0,6/1KV | 2x3x1,5 mm ² | 15,4 | 1,8 | 20,6 | 580 | 300 |
| 1022900563 | 1022501563 | FG16XHOHM16AM16 | 0,6/1KV | 3x3x1,5 mm ² | 16,6 | 1,8 | 21,4 | 700 | 310 |
| 1022900564 | 1022501564 | FG16XHOHM16AM16 | 0,6/1KV | 4x3x1,5 mm ² | 18 | 1,8 | 23 | 840 | 320 |
| 1022900565 | 1022501565 | FG16XHOHM16AM16 | 0,6/1KV | 5x3x1,5 mm ² | 19,8 | 1,8 | 25,4 | 990 | 360 |
| 1022900566 | 1022501566 | FG16XHOHM16AM16 | 0,6/1KV | 6x3x1,5 mm ² | 22 | 1,8 | 27 | 1130 | 380 |
| 1022900567 | 1022501567 | FG16XHOHM16AM16 | 0,6/1KV | 7x3x1,5 mm ² | 22,2 | 2,0 | 27,8 | 1280 | 390 |
| 1022900568 | 1022501568 | FG16XHOHM16AM16 | 0,6/1KV | 12x3x1,5 mm ² | 30 | 2,0 | 34 | 1890 | 480 |
| 1022900569 | 1022501569 | FG16XHOHM16AM16 | 0,6/1KV | 16x3x1,5 mm ² | 33 | 2,0 | 37 | 2490 | 520 |
| 1022900570 | 1022501570 | FG16XHOHM16AM16 | 0,6/1KV | 24x3x1,5 mm ² | 41 | 2,0 | 45 | 3350 | 630 |

| | | | | | | | | |
|------------|------------|-----------------|----------------------------------|------|-----|------|------|-----|
| 1022900571 | 1022501571 | FG16OHM16AM16 | 0,6/1KV 1x3x2,5 mm ² | 9,5 | 1,8 | 14,4 | 380 | 210 |
| 1022900572 | 1022501572 | FG16XHOHM16AM16 | 0,6/1KV 2x3x2,5 mm ² | 17,6 | 1,8 | 22,4 | 710 | 320 |
| 1022900573 | 1022501573 | FG16XHOHM16AM16 | 0,6/1KV 3x3x2,5 mm ² | 18,6 | 1,8 | 23,6 | 880 | 340 |
| 1022900574 | 1022501574 | FG16XHOHM16AM16 | 0,6/1KV 4x3x2,5 mm ² | 20,4 | 1,8 | 25,6 | 1060 | 360 |
| 1022900575 | 1022501575 | FG16XHOHM16AM16 | 0,6/1KV 5x3x2,5 mm ² | 22,5 | 1,8 | 28 | 1260 | 390 |
| 1022900576 | 1022501576 | FG16XHOHM16AM16 | 0,6/1KV 6x3x2,5 mm ² | 25 | 2,0 | 30 | 1450 | 420 |
| 1022900577 | 1022501577 | FG16XHOHM16AM16 | 0,6/1KV 12x3x2,5 mm ² | 33,5 | 2,0 | 38 | 2490 | 530 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable – 102-3

CPR EU 305/2011

Conductor, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH

IEC 60332.1 IEC 60332.3 - HALOGEN FREE

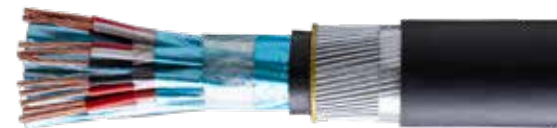
Technical Specifications n° 102-3/23 of 10/11/2023 Rev. 0

Type: FG16XOHM16FM16 0,6/1KV, FG16OHM16FM16 0M6/1Kv

Conductor: Flexible metal conductor according to IEC 60228

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XOHM16FM16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CE I20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- CPR approved Cca s1b,d1,a1
- Cable for intrinsically safe application
- Inductance $\leq 0,90 \text{ mH/Km}$
- Capacitance $= 0,200 \text{ }\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|--|------------------------|------------------------|--------------------|--------------|-------------------|
| 1023900501 | 1023501501 | FG16OHM16FM16 0,6/1KV 1x2x0,75 mm ² | 7 | 1,8 | 11,8 | 230 | 160 |
| 1023900502 | 1023501502 | FG16XOHM16FM16 0,6/1KV 2x2x0,75 mm ² | 11,4 | 1,8 | 15,6 | 360 | 220 |
| 1023900503 | 1023501503 | FG16XOHM16FM16 0,6/1KV 3x2x0,75 mm ² | 12 | 1,8 | 16 | 430 | 230 |
| 1023900504 | 1023501504 | FG16XOHM16FM16 0,6/1KV 4x2x0,75 mm ² | 13,2 | 1,8 | 17,1 | 490 | 250 |
| 1023900505 | 1023501505 | FG16XOHM16FM16 0,6/1KV 5x2x0,75 mm ² | 14,5 | 1,8 | 19 | 580 | 280 |
| 1023900506 | 1023501506 | FG16XOHM16FM16 0,6/1KV 6x2x0,75 mm ² | 16 | 1,8 | 19,8 | 640 | 290 |
| 1023900507 | 1023501507 | FG16XOHM16FM16 0,6/1KV 7x2x0,75 mm ² | 16,2 | 1,8 | 20,3 | 690 | 310 |
| 1023900508 | 1023501508 | FG16XOHM16FM16 0,6/1KV 12x2x0,75 mm ² | 21,4 | 2,0 | 24,7 | 1030 | 360 |
| 1023900509 | 1023501509 | FG16XOHM16FM16 0,6/1KV 16x2x0,75 mm ² | 23,6 | 2,0 | 28,1 | 1310 | 420 |
| 1023900510 | 1023501510 | FG16XOHM16FM16 0,6/1KV 24x2x0,75 mm ² | 30 | 2,0 | 32,3 | 1750 | 470 |
| 1023900511 | 1023501511 | FG16OHM16FM16 0,6/1KV 1x2x1 mm ² | 7,6 | 1,8 | 12,4 | 250 | 170 |
| 1023900512 | 1023501512 | FG16XOHM16FM16 0,6/1KV 2x2x1 mm ² | 12 | 1,8 | 16 | 390 | 230 |
| 1023900513 | 1023501513 | FG16XOHM16FM16 0,6/1KV 3x2x1 mm ² | 12,7 | 1,8 | 16,6 | 470 | 250 |
| 1023900514 | 1023501514 | FG16XOHM16FM16 0,6/1KV 4x2x1 mm ² | 14 | 1,8 | 18 | 540 | 270 |
| 1023900515 | 1023501515 | FG16XOHM16FM16 0,6/1KV 5x2x1 mm ² | 15,4 | 1,8 | 19,8 | 640 | 300 |
| 1023900516 | 1023501516 | FG16XOHM16FM16 0,6/1KV 6x2x1 mm ² | 17 | 1,8 | 20,9 | 710 | 310 |
| 1023900517 | 1023501517 | FG16XOHM16FM16 0,6/1KV 7x2x1 mm ² | 16,8 | 1,8 | 21,3 | 770 | 320 |
| 1023900518 | 1023501518 | FG16XOHM16FM16 0,6/1KV 12x2x1 mm ² | 3 | 2,0 | 26,6 | 1150 | 390 |
| 1023900519 | 1023501519 | FG16XOHM16FM16 0,6/1KV 16x2x1 mm ² | 25 | 2,0 | 29,5 | 1460 | 430 |
| 1023900520 | 1023501520 | FG16XOHM16FM16 0,6/1KV 24x2x1 mm ² | 31,4 | 2,0 | 34,2 | 1960 | 500 |
| 1023900521 | 1023501521 | FG16OHM16FM16 0,6/1KV 1x2x1,5 mm ² | 8 | 1,8 | 12,8 | 280 | 180 |
| 1023900522 | 1023501522 | FG16XOHM16FM16 0,6/1KV 2x2x1,5 mm ² | 12,8 | 1,8 | 16,9 | 440 | 250 |
| 1023900523 | 1023501523 | FG16XOHM16FM16 0,6/1KV 3x2x1,5 mm ² | 13,8 | 1,8 | 17,6 | 520 | 260 |
| 1023900524 | 1023501524 | FG16XOHM16FM16 0,6/1KV 4x2x1,5 mm ² | 15 | 1,8 | 19 | 620 | 280 |
| 1023900525 | 1023501525 | FG16XOHM16FM16 0,6/1KV 5x2x1,5 mm ² | 16,6 | 1,8 | 20,1 | 730 | 310 |
| 1023900526 | 1023501526 | FG16XOHM16FM16 0,6/1KV 6x2x1,5 mm ² | 18 | 1,8 | 21,9 | 820 | 330 |
| 1023900527 | 1023501527 | FG16XOHM16FM16 0,6/1KV 7x2x1,5 mm ² | 18,4 | 1,8 | 22,5 | 890 | 340 |
| 1023900528 | 1023501528 | FG16XOHM16FM16 0,6/1KV 12x2x1,5 mm ² | 24,6 | 2,0 | 28,3 | 1370 | 420 |
| 1023900529 | 1023501529 | FG16XOHM16FM16 0,6/1KV 16x2x1,5 mm ² | 27 | 2,0 | 31,4 | 1730 | 460 |
| 1023900530 | 1023501530 | FG16XOHM16FM16 0,6/1KV 24x2x1,5 mm ² | 34 | 2,0 | 35,7 | 2350 | 530 |
| 1023900531 | 1023501531 | FG16XHM16FM16 0,6/1KV 1x2x2,5 mm ² | 9 | 1,8 | 13,8 | 326 | 220 |
| 1023900532 | 1023501532 | FG16XOHM16FM16 0,6/1KV 2x2x2,5 mm ² | 14,4 | 1,8 | 18,4 | 530 | 280 |
| 1023900533 | 1023501533 | FG16XOHM16FM16 0,6/1KV 3x2x2,5 mm ² | 15,6 | 1,8 | 19,8 | 640 | 300 |
| 1023900534 | 1023501534 | FG16XOHM16FM16 0,6/1KV 4x2x2,5 mm ² | 17 | 1,8 | 20,9 | 770 | 310 |
| 1023900535 | 1023501535 | FG16XOHM16FM16 0,6/1KV 5x2x2,5 mm ² | 18,6 | 1,8 | 23,4 | 940 | 350 |
| 1023900536 | 1023501536 | FG16XOHM16FM16 0,6/1KV 6x2x2,5 mm ² | 21 | 1,8 | 24,1 | 1030 | 360 |

| | | | | | | | | | |
|------------|------------|----------------|---------|---------------------------|------|-----|-------|------|-----|
| 1023900537 | 1023501537 | FG16XOHM16FM16 | 0,6/1KV | 7x2x2,5 mm ² | 21,5 | 2,0 | 25,1 | 1170 | 380 |
| 1023900538 | 1023501538 | FG16XOHM16FM16 | 0,6/1KV | 12x2x2,5 mm ² | 27,3 | 2,0 | 30,8 | 1740 | 460 |
| 1023900539 | 1023501539 | FG16XOHM16FM16 | 0,6/1KV | 16x2x2,5 mm ² | 31 | 2,0 | 34,7 | 2240 | 520 |
| 1023900540 | 1023501540 | FG16XOHM16FM16 | 0,6/1KV | 24x2x2,5 mm ² | 38 | 2,0 | 40,9 | 3100 | 600 |
| 1023900541 | 1023501541 | FG16OHM16FM16 | 0,6/1KV | 1x3x0,75 mm ² | 7,6 | 1,8 | 12,4 | 260 | 170 |
| 1023900542 | 1023501542 | FG16XOHM16FM16 | 0,6/1KV | 2x3x0,75 mm ² | 13,5 | 1,8 | 17,6 | 450 | 270 |
| 1023900543 | 1023501543 | FG16XOHM16FM16 | 0,6/1KV | 3x3x0,75 mm ² | 14,5 | 1,8 | 18,2 | 520 | 280 |
| 1023900544 | 1023501544 | FG16XOHM16FM16 | 0,6/1KV | 4x3x0,75 mm ² | 15,8 | 1,8 | 19,8 | 620 | 290 |
| 1023900545 | 1023501545 | FG16XOHM16FM16 | 0,6/1KV | 5x3x0,75 mm ² | 17,3 | 1,8 | 21,7 | 730 | 320 |
| 1023900546 | 1023501546 | FG16XOHM16FM16 | 0,6/1KV | 6x3x0,75 mm ² | 19,2 | 1,8 | 22,8 | 820 | 340 |
| 1023900547 | 1023501547 | FG16XOHM16FM16 | 0,6/1KV | 7x3x0,75 mm ² | 19,5 | 2,0 | 16 | 890 | 350 |
| 1023900548 | 1023501548 | FG16XOHM16FM16 | 0,6/1KV | 12x3x0,75 mm ² | 25,8 | 2,0 | 29,2 | 1330 | 440 |
| 1023900549 | 1023501549 | FG16XOHM16FM16 | 0,6/1KV | 16x3x0,75 mm ² | 28,5 | 2,0 | 32,7 | 1710 | 490 |
| 1023900550 | 1023501550 | FG16XOHM16FM16 | 0,6/1KV | 24x3x0,75 mm ² | 35,6 | 2,0 | 34,2 | 2300 | 500 |
| 1023900551 | 1023501551 | FG16OHM16FM16 | 0,6/1KV | 1x3x1 mm ² | 8 | 1,8 | 13,2 | 290 | 180 |
| 1023900552 | 1023501552 | FG16XOHM16FM16 | 0,6/1KV | 2x3x1 mm ² | 14,3 | 1,8 | 18,6 | 490 | 280 |
| 1023900553 | 1023501553 | FG16XOHM16FM16 | 0,6/1KV | 3x3x1 mm ² | 15,2 | 1,8 | 19,6 | 590 | 300 |
| 1023900554 | 1023501554 | FG16XOHM16FM16 | 0,6/1KV | 4x3x1 mm ² | 16,6 | 1,8 | 21,1 | 690 | 310 |
| 1023900555 | 1023501555 | FG16XOHM16FM16 | 0,6/1KV | 5x3x1 mm ² | 18,4 | 1,8 | 22,8 | 810 | 340 |
| 1023900556 | 1023501556 | FG16XOHM16FM16 | 0,6/1KV | 6x3x1 mm ² | 20 | 2,0 | 24,5 | 920 | 370 |
| 1023900557 | 1023501557 | FG16XOHM16FM16 | 0,6/1KV | 7x3x1 mm ² | 20,2 | 2,0 | 24,7 | 1020 | 370 |
| 1023900558 | 1023501558 | FG16XOHM16FM16 | 0,6/1KV | 12x3x1 mm ² | 27 | 2,0 | 31,35 | 1560 | 460 |
| 1023900559 | 1023501559 | FG16XOHM16FM16 | 0,6/1KV | 16x3x1 mm ² | 30 | 2,0 | 34,2 | 1930 | 500 |
| 1023900560 | 1023501560 | FG16XOHM16FM16 | 0,6/1KV | 24x3x1 mm ² | 37 | 2,0 | 40,9 | 2700 | 600 |
| 1023900561 | 1023501561 | FG16OM16FM16 | 0,6/1KV | 1x3x1,5 mm ² | 8,5 | 1,8 | 13,3 | 320 | 180 |
| 1023900562 | 1023501562 | FG16XOHM16FM16 | 0,6/1KV | 2x3x1,5 mm ² | 15,4 | 1,8 | 19,6 | 550 | 300 |
| 1023900563 | 1023501563 | FG16XOHM16FM16 | 0,6/1KV | 3x3x1,5 mm ² | 16,6 | 1,8 | 20,3 | 660 | 310 |
| 1023900564 | 1023501564 | FG16XOHM16FM16 | 0,6/1KV | 4x3x1,5 mm ² | 18 | 1,8 | 21,8 | 800 | 320 |
| 1023900565 | 1023501565 | FG16XOHM16FM16 | 0,6/1KV | 5x3x1,5 mm ² | 19,8 | 1,8 | 24,1 | 940 | 360 |
| 1023900566 | 1023501566 | FG16XOHM16FM16 | 0,6/1KV | 6x3x1,5 mm ² | 22 | 1,8 | 25,7 | 1070 | 380 |
| 1023900567 | 1023501567 | FG16XOHM16FM16 | 0,6/1KV | 7x3x1,5 mm ² | 22,2 | 2,0 | 26,4 | 1220 | 390 |
| 1023900568 | 1023501568 | FG16XOHM16FM16 | 0,6/1KV | 12x3x1,5 mm ² | 30 | 2,0 | 32,3 | 1800 | 480 |
| 1023900569 | 1023501569 | FG16XOHM16FM16 | 0,6/1KV | 16x3x1,5 mm ² | 33 | 2,0 | 35,2 | 2370 | 520 |
| 1023900570 | 1023501570 | FG16XOHM16FM16 | 0,6/1KV | 24x3x1,5 mm ² | 41 | 2,0 | 42,8 | 3180 | 630 |
| 1023900571 | 1023501571 | FG16OHM16FM16 | 0,6/1KV | 1x3x2,5 mm ² | 9,5 | 1,8 | 14,4 | 380 | 210 |
| 1023900572 | 1023501572 | FG16XOHM16FM16 | 0,6/1KV | 2x3x2,5 mm ² | 17,6 | 1,8 | 21,3 | 670 | 320 |
| 1023900573 | 1023501573 | FG16XOHM16FM16 | 0,6/1KV | 3x3x2,5 mm ² | 18,6 | 1,8 | 22,4 | 840 | 340 |
| 1023900574 | 1023501574 | FG16XOHM16FM16 | 0,6/1KV | 4x3x2,5 mm ² | 20,4 | 1,8 | 24,3 | 1000 | 360 |

| | | | | | | | | | |
|------------|------------|----------------|---------|--------------------------|------|-----|------|------|-----|
| 1023900575 | 1023501575 | FG16XOHM16FM16 | 0,6/1KV | 5x3x2,5 mm ² | 22,5 | 1,8 | 26,6 | 1200 | 390 |
| 1023900576 | 1023501576 | FG16XOHM16FM16 | 0,6/1KV | 6x3x2,5 mm ² | 25 | 2,0 | 28,5 | 1380 | 420 |
| 1023900577 | 1023501577 | FG16XOHM16FM16 | 0,6/1KV | 12x3x2,5 mm ² | 33,5 | 2,0 | 36,1 | 2370 | 530 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable – 102-4

CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 102-4/23 of 10/11/2023 Rev. 0

Type: FG16XHOHM16FM16 0,6/1KV, FG16OHM16FM16 0M6/1Kv

Conductor: Flexible metal conductor according to IEC 60228

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

**Pair screen:
(if necessary)** Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

Outer sheath: M16 LSZH extruded compound

Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XHOHM16FM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 120-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- CPR approved Cca s1b,d1,a1
- Cable for intrinsically safe application

- Inductance $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | \varnothing OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------------------|------------------------|--------------------|--------------|-------------------|
| 1024900501 | 1024501501 | FG16OHM16FM16 0,6/1KV 1x2x0,75 mm ² | 7 | 1,8 | 11,8 | 230 | 160 |
| 1024900502 | 1024501502 | FG16XHOHM16FM16 0,6/1KV 2x2x0,75 mm ² | 11,4 | 1,8 | 16,4 | 380 | 220 |
| 1024900503 | 1024501503 | FG16XHOHM16FM16 0,6/1KV 3x2x0,75 mm ² | 12 | 1,8 | 16,8 | 450 | 230 |
| 1024900504 | 1024501504 | FG16XHOHM16FM16 0,6/1KV 4x2x0,75 mm ² | 13,2 | 1,8 | 18 | 520 | 250 |
| 1024900505 | 1024501505 | FG16XHOHM16FM16 0,6/1KV 5x2x0,75 mm ² | 14,5 | 1,8 | 20 | 610 | 280 |
| 1024900506 | 1024501506 | FG16XHOHM16FM16 0,6/1KV 6x2x0,75 mm ² | 16 | 1,8 | 20,8 | 680 | 290 |
| 1024900507 | 1024501507 | FG16XHOHM16FM16 0,6/1KV 7x2x0,75 mm ² | 16,2 | 1,8 | 21,4 | 730 | 310 |
| 1024900508 | 1024501508 | FG16XHOHM16FM16 0,6/1KV 12x2x0,75 mm ² | 21,4 | 2,0 | 26 | 1080 | 360 |
| 1024900509 | 1024501509 | FG16XHOHM16FM16 0,6/1KV 16x2x0,75 mm ² | 23,6 | 2,0 | 29,6 | 1380 | 420 |
| 1024900510 | 1024501510 | FG16XHOHM16FM16 0,6/1KV 24x2x0,75 mm ² | 30 | 2,0 | 34 | 1840 | 470 |
| 1024900511 | 1024501511 | FG16OHM16FM16 0,6/1KV 1x2x1 mm ² | 7,6 | 1,8 | 12,4 | 250 | 170 |
| 1024900512 | 1024501512 | FG16XHOHM16FM16 0,6/1KV 2x2x1 mm ² | 12 | 1,8 | 16,8 | 410 | 230 |
| 1024900513 | 1024501513 | FG16XHOHM16FM16 0,6/1KV 3x2x1 mm ² | 12,7 | 1,8 | 17,5 | 490 | 250 |
| 1024900514 | 1024501514 | FG16XHOHM16FM16 0,6/1KV 4x2x1 mm ² | 14 | 1,8 | 19 | 570 | 270 |
| 1024900515 | 1024501515 | FG16XHOHM16FM16 0,6/1KV 5x2x1 mm ² | 15,4 | 1,8 | 20,8 | 670 | 300 |
| 1024900516 | 1024501516 | FG16XHOHM16FM16 0,6/1KV 6x2x1 mm ² | 17 | 1,8 | 22 | 750 | 310 |
| 1024900517 | 1024501517 | FG16XHOHM16FM16 0,6/1KV 7x2x1 mm ² | 16,8 | 1,8 | 22,4 | 810 | 320 |
| 1024900518 | 1024501518 | FG16XHOHM16FM16 0,6/1KV 12x2x1 mm ² | 23 | 2,0 | 28 | 1210 | 390 |
| 1024900519 | 1024501519 | FG16XHOHM16FM16 0,6/1KV 16x2x1 mm ² | 25 | 2,0 | 31 | 1540 | 430 |
| 1024900520 | 1024501520 | FG16XHOHM16FM16 0,6/1KV 24x2x1 mm ² | 31,4 | 2,0 | 36 | 2070 | 500 |
| 1024900521 | 1024501521 | FG16OHM16FM16 0,6/1KV 1x2x1,5 mm ² | 8 | 1,8 | 12,8 | 280 | 180 |
| 1024900522 | 1024501522 | FG16XHOHM16FM16 0,6/1KV 2x2x1,5 mm ² | 12,8 | 1,8 | 17,8 | 460 | 250 |
| 1024900523 | 1024501523 | FG16XHOHM16FM16 0,6/1KV 3x2x1,5 mm ² | 13,8 | 1,8 | 18,5 | 550 | 260 |
| 1024900524 | 1024501524 | FG16XHOHM16FM16 0,6/1KV 4x2x1,5 mm ² | 15 | 1,8 | 20 | 650 | 280 |
| 1024900525 | 1024501525 | FG16XHOHM16FM16 0,6/1KV 5x2x1,5 mm ² | 16,6 | 1,8 | 22 | 770 | 310 |
| 1024900526 | 1024501526 | FG16XHOHM16FM16 0,6/1KV 6x2x1,5 mm ² | 18 | 1,8 | 23 | 860 | 330 |
| 1024900527 | 1024501527 | FG16XHOHM16FM16 0,6/1KV 7x2x1,5 mm ² | 18,4 | 1,8 | 23,7 | 940 | 340 |
| 1024900528 | 1024501528 | FG16XHOHM16FM16 0,6/1KV 12x2x1,5 mm ² | 24,6 | 2,0 | 29,8 | 1440 | 420 |
| 1024900529 | 1024501529 | FG16XHOHM16FM16 0,6/1KV 16x2x1,5 mm ² | 27 | 2,0 | 33 | 1820 | 460 |
| 1024900530 | 1024501530 | FG16XHOHM16FM16 0,6/1KV 24x2x1,5 mm ² | 34 | 2,0 | 37,6 | 2470 | 530 |
| 1024900531 | 1024501531 | FG16XHM16FM16 0,6/1KV 1x2x2,5 mm ² | 9 | 1,8 | 13,8 | 326 | 220 |

| | | | | | | | | | |
|------------|------------|-----------------|---------|---------------------------|------|-----|------|------|-----|
| 1024900532 | 1024501532 | FG16XHOHM16FM16 | 0,6/1KV | 2x2x2,5 mm ² | 14,4 | 1,8 | 19,4 | 560 | 280 |
| 1024900533 | 1024501533 | FG16XHOHM16FM16 | 0,6/1KV | 3x2x2,5 mm ² | 15,6 | 1,8 | 20,8 | 670 | 300 |
| 1024900534 | 1024501534 | FG16XHOHM16FM16 | 0,6/1KV | 4x2x2,5 mm ² | 17 | 1,8 | 22 | 810 | 310 |
| 1024900535 | 102401535 | FG16XHOHM16FM16 | 0,6/1KV | 5x2x2,5 mm ² | 18,6 | 1,8 | 24,6 | 990 | 350 |
| 1024900536 | 1024501536 | FG16XHOHM16FM16 | 0,6/1KV | 6x2x2,5 mm ² | 21 | 1,8 | 25,4 | 1090 | 360 |
| 1024900537 | 1024501537 | FG16XHOHM16FM16 | 0,6/1KV | 7x2x2,5 mm ² | 21,5 | 2,0 | 26,4 | 1230 | 380 |
| 1024900538 | 1024501538 | FG16XHOHM16FM16 | 0,6/1KV | 12x2x2,5 mm ² | 27,3 | 2,0 | 32,4 | 1830 | 460 |
| 1024900539 | 1024501539 | FG16XHOHM16FM16 | 0,6/1KV | 16x2x2,5 mm ² | 31 | 2,0 | 36,5 | 2360 | 520 |
| 1024900540 | 1024501540 | FG16XHOHM16FM16 | 0,6/1KV | 24x2x2,5 mm ² | 38 | 2,0 | 43 | 3260 | 600 |
| 1024900541 | 1024501541 | FG16OHM16FM16 | 0,6/1KV | 1x3x0,75 mm ² | 7,6 | 1,8 | 12,4 | 260 | 170 |
| 1024900542 | 1024501542 | FG16XHOHM16FM16 | 0,6/1KV | 2x3x0,75 mm ² | 13,5 | 1,8 | 18,5 | 470 | 270 |
| 1024900543 | 1024501543 | FG16XHOHM16FM16 | 0,6/1KV | 3x3x0,75 mm ² | 14,5 | 1,8 | 19,2 | 550 | 280 |
| 1024900544 | 1024501544 | FG16XHOHM16FM16 | 0,6/1KV | 4x3x0,75 mm ² | 15,8 | 1,8 | 20,8 | 650 | 290 |
| 1024900545 | 1024501545 | FG16XHOHM16FM16 | 0,6/1KV | 5x3x0,75 mm ² | 17,3 | 1,8 | 22,8 | 770 | 320 |
| 1024900546 | 1024501546 | FG16XHOHM16FM16 | 0,6/1KV | 6x3x0,75 mm ² | 19,2 | 1,8 | 24 | 860 | 340 |
| 1024900547 | 1024501547 | FG16XHOHM16FM16 | 0,6/1KV | 7x3x0,75 mm ² | 19,5 | 2,0 | 24,6 | 940 | 350 |
| 1024900548 | 1024501548 | FG16XHOHM16FM16 | 0,6/1KV | 12x3x0,75 mm ² | 25,8 | 2,0 | 30,7 | 1400 | 440 |
| 1024900549 | 1024501549 | FG16XHOHM16FM16 | 0,6/1KV | 16x3x0,75 mm ² | 28,5 | 2,0 | 34,4 | 1800 | 490 |
| 1024900550 | 1024501550 | FG16XHOHM16FM16 | 0,6/1KV | 24x3x0,75 mm ² | 35,6 | 2,0 | 36 | 2420 | 500 |
| 1024900551 | 1024501551 | FG16OHM16FM16 | 0,6/1KV | 1x3x1 mm ² | 8 | 1,8 | 13,2 | 290 | 180 |
| 1024900552 | 1024501552 | FG16XHOHM16FM16 | 0,6/1KV | 2x3x1 mm ² | 14,3 | 1,8 | 19,6 | 520 | 280 |
| 1024900553 | 1024501553 | FG16XHOHM16FM16 | 0,6/1KV | 3x3x1 mm ² | 15,2 | 1,8 | 20,6 | 620 | 300 |
| 1029400554 | 1024501554 | FG16XHOHM16FM16 | 0,6/1KV | 4x3x1 mm ² | 16,6 | 1,8 | 22,2 | 730 | 310 |
| 1029400555 | 1024501555 | FG16XHOHM16FM16 | 0,6/1KV | 5x3x1 mm ² | 18,4 | 1,8 | 24 | 850 | 340 |
| 1029400556 | 1024501556 | FG16XHOHM16FM16 | 0,6/1KV | 6x3x1 mm ² | 20 | 2,0 | 25,8 | 970 | 370 |
| 1029400557 | 1024501557 | FG16XHOHM16FM16 | 0,6/1KV | 7x3x1 mm ² | 20,2 | 2,0 | 26 | 1080 | 370 |
| 1029400558 | 1024501558 | FG16XHOHM16FM16 | 0,6/1KV | 12x3x1 mm ² | 27 | 2,0 | 33 | 1640 | 460 |
| 1029400559 | 1024501559 | FG16XHOHM16FM16 | 0,6/1KV | 16x3x1 mm ² | 30 | 2,0 | 36 | 2030 | 500 |
| 1029400560 | 1024501560 | FG16XHOHM16FM16 | 0,6/1KV | 24x3x1 mm ² | 37 | 2,0 | 43 | 2840 | 600 |
| 1029400561 | 1024501561 | FG16OM16FM16 | 0,6/1KV | 1x3x1,5 mm ² | 8,5 | 1,8 | 13,3 | 320 | 180 |
| 1029400562 | 1024501562 | FG16XHOHM16FM16 | 0,6/1KV | 2x3x1,5 mm ² | 15,4 | 1,8 | 20,6 | 580 | 300 |
| 1029400563 | 1024501563 | FG16XHOHM16FM16 | 0,6/1KV | 3x3x1,5 mm ² | 16,6 | 1,8 | 21,4 | 700 | 310 |
| 1029400564 | 1024501564 | FG16XHOHM16FM16 | 0,6/1KV | 4x3x1,5 mm ² | 18 | 1,8 | 23 | 840 | 320 |
| 1029400565 | 1024501565 | FG16XHOHM16FM16 | 0,6/1KV | 5x3x1,5 mm ² | 19,8 | 1,8 | 25,4 | 990 | 360 |
| 1029400566 | 1024501566 | FG16XHOHM16FM16 | 0,6/1KV | 6x3x1,5 mm ² | 22 | 1,8 | 27 | 1130 | 380 |
| 1029400567 | 1024501567 | FG16XHOHM16FM16 | 0,6/1KV | 7x3x1,5 mm ² | 22,2 | 2,0 | 27,8 | 1280 | 390 |
| 1029400568 | 1024501568 | FG16XHOHM16FM16 | 0,6/1KV | 12x3x1,5 mm ² | 30 | 2,0 | 34 | 1890 | 480 |
| 1029400569 | 1024501569 | FG16XHOHM16FM16 | 0,6/1KV | 16x3x1,5 mm ² | 33 | 2,0 | 37 | 2490 | 520 |

| | | | | | | | | | |
|------------|------------|-----------------|---------|--------------------------|------|-----|------|------|-----|
| 1029400570 | 1024501570 | FG16XHOHM16FM16 | 0,6/1KV | 24x3x1,5 mm ² | 41 | 2,0 | 45 | 3350 | 630 |
| 1029400571 | 1024501571 | FG16OHM16FM16 | 0,6/1KV | 1x3x2,5 mm ² | 9,5 | 1,8 | 14,4 | 380 | 210 |
| 1029400572 | 1024501572 | FG16XHOHM16FM16 | 0,6/1KV | 2x3x2,5 mm ² | 17,6 | 1,8 | 22,4 | 710 | 320 |
| 1029400573 | 1024501573 | FG16XHOHM16FM16 | 0,6/1KV | 3x3x2,5 mm ² | 18,6 | 1,8 | 23,6 | 880 | 340 |
| 1029400574 | 1024501574 | FG16XHOHM16FM16 | 0,6/1KV | 4x3x2,5 mm ² | 20,4 | 1,8 | 25,6 | 1060 | 360 |
| 1029400575 | 1024501575 | FG16XHOHM16FM16 | 0,6/1KV | 5x3x2,5 mm ² | 22,5 | 1,8 | 28 | 1260 | 390 |
| 1029400576 | 1024501576 | FG16XHOHM16FM16 | 0,6/1KV | 6x3x2,5 mm ² | 25 | 2,0 | 30 | 1450 | 420 |
| 1029400577 | 1024501577 | FG16XHOHM16FM16 | 0,6/1KV | 12x3x2,5 mm ² | 33,5 | 2,0 | 38 | 2490 | 530 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Multicore Power Cable – 103-1

CPR EU 305/2011

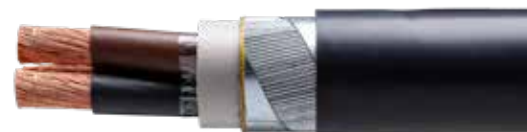
**CU, G16 INSULATION, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 103-1/23 of 10/11/2023 Rev. 0

Type: FG160M16AM16 0,6/1KV

Conductor: Flexible copper conductor according to IEC 60228 cl.5

Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 1,50 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,7 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |
| 35 mm ² | 0,90 ± 0,02 mm |
| 50 mm ² | 1,00 ± 0,02 mm |
| 70 mm ² | 1,10 ± 0,02 mm |
| 95 mm ² | 1,10 ± 0,02 mm |
| 120 mm ² | 1,20 ± 0,02 mm |

Laying up: Twisted to core, UNEL (or to be agreed)

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
Colour: Grey/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG160M16AM16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60 332-3-22, CEI 20-22/2
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial

This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

- EN50575 tested for approval, Cca s1b,d1,a1

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------|------------------------|--------------------|--------------|-------------------|
| 1031900501 | 1031703501 | FG160M16AM16 0,6/1KV 2x1,5 mm ² | 7,9 | 1,8 | 13 | 250 | 190 |
| 1031900502 | 1031703502 | FG160M16AM16 0,6/1KV 3x1,5 mm ² | 8,4 | 1,8 | 13,4 | 290 | 190 |
| 1031900503 | 1031703503 | FG160M16AM16 0,6/1KV 4x1,5 mm ² | 9 | 1,8 | 14,2 | 330 | 200 |
| 1031900504 | 1031703504 | FG160M16AM16 0,6/1KV 5x1,5 mm ² | 10 | 1,8 | 15 | 380 | 210 |
| 1031900505 | 1031703505 | FG160M16AM16 0,6/1KV 6x1,5 mm ² | 10,6 | 1,8 | 15,9 | 430 | 230 |
| 1031900506 | 1031703506 | FG160M16AM16 0,6/1KV 7x1,5 mm ² | 10,8 | 1,8 | 16 | 450 | 230 |
| 1031900507 | 1031703507 | FG160M16AM16 0,6/1KV 10x1,5 mm ² | 13,6 | 1,8 | 18,6 | 600 | 270 |
| 1031900508 | 1031703508 | FG160M16AM16 0,6/1KV 12x1,5 mm ² | 14,2 | 1,8 | 19,4 | 650 | 280 |
| 1031900509 | 1031703509 | FG160M16AM16 0,6/1KV 16x1,5 mm ² | 15,8 | 1,8 | 20,8 | 800 | 300 |
| 1031900510 | 1031703510 | FG160M16AM16 0,6/1KV 20x1,5 mm ² | 17,6 | 2,0 | 22,8 | 990 | 330 |
| 1031900511 | 1031703511 | FG160M16AM16 0,6/1KV 24x1,5 mm ² | 20 | 2,0 | 24,7 | 1080 | 360 |
| 1031900512 | 1031703512 | FG160M16AM16 0,6/1KV 48x1,5 mm ² | 26 | 2,0 | 31 | 1940 | 450 |
| 1031900513 | 1031703513 | FG160M16AM16 0,6/1KV 2x2,5 mm ² | 9 | 1,8 | 14 | 300 | 200 |
| 1031900514 | 1031703514 | FG160M16AM16 0,6/1KV 3x2,5 mm ² | 9,4 | 1,8 | 14,4 | 350 | 210 |
| 1031900515 | 1031703515 | FG160M16AM16 0,6/1KV 4x2,5 mm ² | 10,2 | 1,8 | 15,2 | 410 | 220 |
| 1031900516 | 1031703516 | FG160M16AM16 0,6/1KV 5x2,5 mm ² | 11,2 | 1,8 | 16,3 | 460 | 230 |
| 1031900517 | 1031703517 | FG160M16AM16 0,6/1KV 6x2,5 mm ² | 12,4 | 1,8 | 17,3 | 520 | 250 |
| 1031900518 | 1031703518 | FG160M16AM16 0,6/1KV 7x2,5 mm ² | 12,2 | 1,8 | 17,7 | 570 | 260 |
| 1031900519 | 1031703519 | FG160M16AM16 0,6/1KV 10x2,5 mm ² | 15,8 | 1,8 | 21 | 800 | 300 |
| 1031900520 | 1031703520 | FG160M16AM16 0,6/1KV 12x2,5 mm ² | 16 | 1,8 | 21,1 | 840 | 310 |
| 1031900521 | 1031703521 | FG160M16AM16 0,6/1KV 16x2,5 mm ² | 18,2 | 2,0 | 23 | 1100 | 330 |
| 1031900522 | 1031703522 | FG160M16AM16 0,6/1KV 20x2,5 mm ² | 20,6 | 2,0 | 25,2 | 1310 | 360 |
| 1031900523 | 1031703523 | FG160M16AM16 0,6/1KV 24x2,5 mm ² | 23 | 2,0 | 27,9 | 1450 | 400 |
| 1031900524 | 1031703524 | FG160M16AM16 0,6/1KV 48x2,5 mm ² | 29 | 2,0 | 33 | 2660 | 480 |
| 1031900525 | 1031703525 | FG160M16AM16 0,6/1KV 2x4 mm ² | 9,8 | 1,8 | 15 | 360 | 220 |
| 1031900526 | 1031703526 | FG160M16AM16 0,6/1KV 3x4 mm ² | 10,3 | 1,8 | 15,5 | 430 | 220 |
| 1031900527 | 1031703527 | FG160M16AM16 0,6/1KV 4x4 mm ² | 11,5 | 1,8 | 16,5 | 500 | 240 |
| 1031900528 | 1031703528 | FG160M16AM16 0,6/1KV 5x4 mm ² | 12,5 | 1,8 | 17,5 | 590 | 250 |

| | | | | | | | | | |
|------------|------------|--------------|---------|------------------------|------|-----|------|------|-----|
| 1031900529 | 1031703529 | FG160M16AM16 | 0,6/1KV | 7x4 mm ² | 13,7 | 1,8 | 19,1 | 770 | 280 |
| 1031900530 | 1031703530 | FG160M16AM16 | 0,6/1KV | 2x6 mm ² | 11,2 | 1,8 | 16,5 | 440 | 240 |
| 1031900531 | 1031703531 | FG160M16AM16 | 0,6/1KV | 3x6 mm ² | 11,8 | 1,8 | 16,6 | 530 | 250 |
| 1031900532 | 1031703532 | FG160M16AM16 | 0,6/1KV | 4x6 mm ² | 13 | 1,8 | 18 | 650 | 260 |
| 1031900533 | 1031703533 | FG160M16AM16 | 0,6/1KV | 5x 6 mm ² | 14,6 | 2,0 | 20 | 750 | 290 |
| 1031900534 | 1031703534 | FG160M16AM16 | 0,6/1KV | 2x10 mm ² | 14,8 | 1,8 | 20,2 | 640 | 290 |
| 1031900535 | 1031703535 | FG160M16AM16 | 0,6/1KV | 3x10 mm ² | 15,8 | 1,8 | 20,8 | 800 | 300 |
| 1031900536 | 1031703536 | FG160M16AM16 | 0,6/1KV | 4x10 mm ² | 18 | 1,8 | 22,8 | 1020 | 330 |
| 1031900537 | 1031703537 | FG160M16AM16 | 0,6/1KV | 5x10 mm ² | 20 | 2,0 | 24,8 | 1200 | 360 |
| 1031900538 | 1031703538 | FG160M16AM16 | 0,6/1KV | 2x16 mm ² | 18 | 1,8 | 22,7 | 870 | 330 |
| 1031900539 | 1031703539 | FG160M16AM16 | 0,6/1KV | 3x16mm ² | 19 | 2,0 | 24,3 | 1150 | 350 |
| 1031900540 | 1031703540 | FG160M16AM16 | 0,6/1KV | 4x16 mm ² | 21 | 2,0 | 26 | 1430 | 380 |
| 1031900541 | 1031703541 | FG160M16AM16 | 0,6/1KV | 5x16 mm ² | 23 | 2,0 | 28,1 | 1700 | 410 |
| 1031900542 | 1031703542 | FG160M16AM16 | 0,6/1KV | 2x25 mm ² | 22 | 2,0 | 25,2 | 1260 | 360 |
| 1031900543 | 1031703543 | FG160M16AM16 | 0,6/1KV | 3x25 mm ² | 22 | 2,0 | 27,1 | 1550 | 390 |
| 1031900544 | 1031703544 | FG160M16AM16 | 0,6/1KV | 4x25 mm ² | 24,5 | 2,0 | 29,1 | 1940 | 420 |
| 1031900545 | 1031703545 | FG160M16AM16 | 0,6/1KV | 5x25 mm ² | 27 | 2,0 | 32 | 2330 | 460 |
| 1031900546 | 1031703546 | FG160M16AM16 | 0,6/1KV | 3x35 mm ² | 25 | 2,0 | 29,1 | 1980 | 420 |
| 1031900547 | 1031703547 | FG160M16AM16 | 0,6/1KV | 3½x35 mm ² | 27 | 2,0 | 32 | 2500 | 460 |
| 1031900548 | 1031703548 | FG160M16AM16 | 0,6/1KV | 5x35 mm ² | 34 | 2,0 | 38,8 | 3000 | 560 |
| 1031900549 | 1031703549 | FG160M16AM16 | 0,6/1KV | 3x50 mm ² | 29 | 2,0 | 33 | 2620 | 480 |
| 1031900550 | 1031703550 | FG160M16AM16 | 0,6/1KV | 3½x50 mm ² | 31 | 2,0 | 35,9 | 3320 | 520 |
| 1031900551 | 1031703551 | FG160M16AM16 | 0,6/1KV | 3x70 mm ² | 33 | 2,0 | 36,9 | 3420 | 530 |
| 1031900552 | 1031703552 | FG160M16AM16 | 0,6/1KV | 3½x70 mm ² | 36 | 2,0 | 40,6 | 4360 | 590 |
| 1031900553 | 1031703553 | FG160M16AM16 | 0,6/1KV | 3x95 mm ² | 36 | 2,0 | 40,7 | 4400 | 590 |
| 1031900554 | 1031703554 | FG160M16AM16 | 0,6/1KV | 3½x95 mm ² | 41 | 2,0 | 44,6 | 5630 | 650 |
| 1031900555 | 1031703555 | FG160M16AM16 | 0,6/1KV | 3x120 mm ² | 42 | 2,0 | 45,6 | 5340 | 660 |
| 1031900556 | 1031703556 | FG160M16AM16 | 0,6/1KV | 3½x120 mm ² | 44 | 2,0 | 48,5 | 6870 | 700 |
| 1031900557 | 1031703557 | FG160M16AM16 | 0,6/1KV | 5 G 50 mm ² | 35 | 2,0 | 38,8 | 3880 | 560 |

Weight and diameter: Are theoretical +/- 10%

Intended use: Multicore power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Multicore Power Cable – 103-2

CPR EU 305/2011

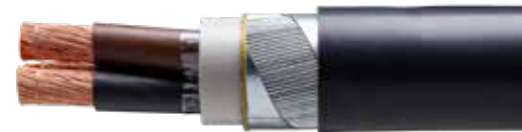
**CU, G16 INSULATION, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 103-2/23 of 10/11/2023 Rev. 0

Type: FG16OM16FM16 0,6/1 KV

Conductor: Flexible copper conductor according to IEC 60228 cl.5

Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 1,50 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,7 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |
| 35 mm ² | 0,90 ± 0,02 mm |
| 50 mm ² | 1,00 ± 0,02 mm |
| 70 mm ² | 1,10 ± 0,02 mm |
| 95 mm ² | 1,10 ± 0,02 mm |
| 120 mm ² | 1,20 ± 0,02 mm |

Laying up: Twisted to core, UNEL (or to be agreed)

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

Outer sheath: M16 LSZH extruded compound
Colour: Grey/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OM16FM16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60 332-3-22, CEI 20-22/2
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial

This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
 - EN50575 tested for approval, Cca s1b,d1,a1

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------|------------------------|--------------------|--------------|-------------------|
| 1032900501 | 1032703501 | FG160M16FM16 0,6/1KV 2x1,5 mm ² | 7,9 | 1,8 | 13,4 | 260 | 190 |
| 1032900502 | 1032703502 | FG160M16FM16 0,6/1KV 3x1,5 mm ² | 8,4 | 1,8 | 13,8 | 300 | 190 |
| 1032900503 | 1032703503 | FG160M16FM16 0,6/1KV 4x1,5 mm ² | 9 | 1,8 | 14,6 | 340 | 200 |
| 1032900504 | 1032703504 | FG160M16FM16 0,6/1KV 5x1,5 mm ² | 10 | 1,8 | 15,5 | 390 | 210 |
| 1032900505 | 1032703505 | FG160M16FM16 0,6/1KV 6x1,5 mm ² | 10,6 | 1,8 | 16,4 | 440 | 230 |
| 1032900506 | 1032703506 | FG160M16FM16 0,6/1KV 7x1,5 mm ² | 10,8 | 1,8 | 16,5 | 460 | 230 |
| 1032900507 | 1032703507 | FG160M16FM16 0,6/1KV 10x1,5 mm ² | 13,6 | 1,8 | 19,2 | 620 | 270 |
| 1032900508 | 1032703508 | FG160M16FM16 0,6/1KV 12x1,5 mm ² | 14,2 | 1,8 | 20 | 670 | 280 |
| 1032900509 | 1032703509 | FG160M16FM16 0,6/1KV 16x1,5 mm ² | 15,8 | 1,8 | 21,5 | 830 | 300 |
| 1032900510 | 1032703510 | FG160M16FM16 0,6/1KV 20x1,5 mm ² | 17,6 | 2,0 | 23,5 | 1020 | 330 |
| 1032900511 | 1032703511 | FG160M16FM16 0,6/1KV 24x1,5 mm ² | 20 | 2,0 | 25,5 | 1110 | 360 |
| 1032900512 | 1032703512 | FG160M16FM16 0,6/1KV 48x1,5 mm ² | 26 | 2,0 | 32 | 2000 | 450 |
| 1032900513 | 1032703513 | FG160M16FM16 0,6/1KV 2x2,5 mm ² | 9 | 1,8 | 14,4 | 310 | 200 |
| 1032900514 | 1032703514 | FG160M16FM16 0,6/1KV 3x2,5 mm ² | 9,4 | 1,8 | 14,8 | 360 | 210 |
| 1032900515 | 1032703515 | FG160M16FM16 0,6/1KV 4x2,5 mm ² | 10,2 | 1,8 | 15,7 | 420 | 220 |
| 1032900516 | 1032703516 | FG160M16FM16 0,6/1KV 5x2,5 mm ² | 11,2 | 1,8 | 16,8 | 480 | 230 |
| 1032900517 | 1032703517 | FG160M16FM16 0,6/1KV 6x2,5 mm ² | 12,4 | 1,8 | 17,8 | 560 | 250 |
| 1032900518 | 1032703518 | FG160M16FM16 0,6/1KV 7x2,5 mm ² | 12,2 | 1,8 | 18,2 | 610 | 260 |
| 1032900519 | 1032703519 | FG160M16FM16 0,6/1KV 10x2,5 mm ² | 15,8 | 1,8 | 21,6 | 830 | 300 |
| 1032900520 | 1032703520 | FG160M16FM16 0,6/1KV 12x2,5 mm ² | 16 | 1,8 | 21,8 | 870 | 310 |
| 1032900521 | 1032703521 | FG160M16FM16 0,6/1KV 16x2,5 mm ² | 18,2 | 2,0 | 23,8 | 1140 | 330 |
| 1032900522 | 1032703522 | FG160M16FM16 0,6/1KV 20x2,5 mm ² | 20,6 | 2,0 | 26 | 1350 | 360 |
| 1032900523 | 1032703523 | FG160M16FM16 0,6/1KV 24x2,5 mm ² | 23 | 2,0 | 28,8 | 1500 | 400 |
| 1032900524 | 1032703524 | FG160M16FM16 0,6/1KV 48x2,5 mm ² | 29 | 2,0 | 34 | 2740 | 480 |
| 1032900525 | 1032703525 | FG160M16FM16 0,6/1KV 2x4 mm ² | 9,8 | 1,8 | 15,4 | 370 | 220 |
| 1032900526 | 1032703526 | FG160M16FM16 0,6/1KV 3x4 mm ² | 10,3 | 1,8 | 16 | 440 | 220 |
| 1032900527 | 1032703527 | FG160M16FM16 0,6/1KV 4x4 mm ² | 11,5 | 1,8 | 17 | 520 | 240 |
| 1032900528 | 1032703528 | FG160M16FM16 0,6/1KV 5x4 mm ² | 12,5 | 1,8 | 18 | 610 | 250 |

| | | | | | | | | |
|------------|------------|--------------|--------------------------------|------|-----|------|------|-----|
| 1032900529 | 1032703529 | FG160M16FM16 | 0,6/1KV 7x4 mm ² | 13,7 | 1,8 | 19,7 | 790 | 280 |
| 1032900530 | 1032703530 | FG160M16FM16 | 0,6/1KV 2x6 mm ² | 11,2 | 1,8 | 17 | 450 | 240 |
| 1032900531 | 1032703531 | FG160M16FM16 | 0,6/1KV 3x6 mm ² | 11,8 | 1,8 | 17,5 | 550 | 250 |
| 1032900532 | 1032703532 | FG160M16FM16 | 0,6/1KV 4x6 mm ² | 13 | 1,8 | 18,6 | 670 | 260 |
| 1032900533 | 1032703533 | FG160M16FM16 | 0,6/1KV 5x 6 mm ² | 14,6 | 2,0 | 20,6 | 780 | 290 |
| 1032900534 | 1032703534 | FG160M16FM16 | 0,6/1KV 2x10 mm ² | 14,8 | 1,8 | 20,8 | 660 | 290 |
| 1032900535 | 1032703535 | FG160M16FM16 | 0,6/1KV 3x10 mm ² | 15,8 | 1,8 | 21,4 | 830 | 300 |
| 1032900536 | 1032703536 | FG160M16FM16 | 0,6/1KV 4x10 mm ² | 18 | 1,8 | 23,5 | 1050 | 330 |
| 1032900537 | 1032703537 | FG160M16FM16 | 0,6/1KV 5x10 mm ² | 20 | 2,0 | 25,6 | 1240 | 360 |
| 1032900538 | 1032703538 | FG160M16FM16 | 0,6/1KV 2x16 mm ² | 18 | 1,8 | 23,4 | 900 | 330 |
| 1032900539 | 1032703539 | FG160M16FM16 | 0,6/1KV 3x16mm ² | 19 | 2,0 | 25 | 1190 | 350 |
| 1032900540 | 1032703540 | FG160M16FM16 | 0,6/1KV 4x16 mm ² | 21 | 2,0 | 26,8 | 1470 | 380 |
| 1032900541 | 1032703541 | FG160M16FM16 | 0,6/1KV 5x16 mm ² | 23 | 2,0 | 29 | 1760 | 410 |
| 1032900542 | 1032703542 | FG160M16FM16 | 0,6/1KV 2x25 mm ² | 22 | 2,0 | 26 | 1300 | 360 |
| 1032900543 | 1032703543 | FG160M16FM16 | 0,6/1KV 3x25 mm ² | 22 | 2,0 | 28 | 1600 | 390 |
| 1032900544 | 1032703544 | FG160M16FM16 | 0,6/1KV 4x25 mm ² | 24,5 | 2,0 | 30 | 2000 | 420 |
| 1032900545 | 1032703545 | FG160M16FM16 | 0,6/1KV 5x25 mm ² | 27 | 2,0 | 33 | 2400 | 460 |
| 1032900546 | 1032703546 | FG160M16FM16 | 0,6/1KV 3x35 mm ² | 25 | 2,0 | 30 | 2040 | 420 |
| 1032900547 | 1032703547 | FG160M16FM16 | 0,6/1KV 3½x35 mm ² | 27 | 2,0 | 33 | 2580 | 460 |
| 1032900548 | 1032703548 | FG160M16FM16 | 0,6/1KV 5x35 mm ² | 34 | 2,0 | 40 | 3100 | 560 |
| 1032900549 | 1032703549 | FG160M16FM16 | 0,6/1KV 3x50 mm ² | 29 | 2,0 | 34 | 2700 | 480 |
| 1032900550 | 1032703550 | FG160M16FM16 | 0,6/1KV 3½x50 mm ² | 31 | 2,0 | 37 | 3420 | 520 |
| 1032900551 | 1032703551 | FG160M16FM16 | 0,6/1KV 3x70 mm ² | 33 | 2,0 | 38 | 3530 | 530 |
| 1032900552 | 1032703552 | FG160M16FM16 | 0,6/1KV 3½x70 mm ² | 36 | 2,0 | 42 | 4500 | 590 |
| 1032900553 | 1032703553 | FG160M16FM16 | 0,6/1KV 3x95 mm ² | 36 | 2,0 | 42 | 4540 | 590 |
| 1032900554 | 1032703554 | FG160M16FM16 | 0,6/1KV 3½x95 mm ² | 41 | 2,0 | 46 | 5800 | 650 |
| 1032900555 | 1032703555 | FG160M16FM16 | 0,6/1KV 3x120 mm ² | 42 | 2,0 | 47 | 5500 | 660 |
| 1032900556 | 1032703556 | FG160M16FM16 | 0,6/1KV 3½x120 mm ² | 44 | 2,0 | 50 | 7080 | 700 |
| 1032900557 | 1032703557 | FG160M16FM16 | 0,6/1KV 5 G 50 mm ² | 35 | 2,0 | 40 | 3990 | 560 |

Weight and diameter: Are theoretical +/- 10%

Intended use: Multicore power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable - 104

CPR EU 305/2011

Conductor, G16 INSULATION, INDIVIDUAL ALUMINIUM SCREEN AND COPPER WIRE BRAID OVERALL SCREEN, M16 OUTER SHEATH

IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 104/23 of 10/11/2023 Rev. 0

Type: FG16XOHH2M16 0,6/1KV - FG16XHOH2M16 0,6/1 KV

Conductor: Flexible metal conductor according to IEC 60228

Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|---------------|
| 1,0 mm ² | 0,7 ± 0,02 mm |
| 1,5 mm ² | 0,7 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

Pair screen: (if required) Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium / Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with copper wire braid 60% coverage.

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16XHOH2M16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance $\leq 0,90\text{mH/Km}$
- Capacitance $= 0,200\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN 60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved Cca s1b,d1,a1

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|---------------------------|--------------------|--------------|-------------------|
| 104900501 | 104501501 | FG16XOHH2M16 0,6/1KV 1x2x1 mm ² | 1,8 | 10 | 160 | 120 |
| 104900502 | 104501502 | FG16XHOH2M16 0,6/1KV 2x2x1 mm ² | 1,8 | 14 | 270 | 160 |
| 104900503 | 104501503 | FG16XHOH2M16 0,6/1KV 5x2x1 mm ² | 1,8 | 18 | 510 | 210 |
| 104900504 | 104501504 | FG16XHOH2M16 0,6/1KV 6x2x1 mm ² | 1,8 | 19 | 590 | 220 |
| 104900505 | 104501505 | FG16XHOH2M16 0,6/1KV 7x2x1 mm ² | 1,8 | 20 | 650 | 240 |
| 104900506 | 104501506 | FG16XHOH2M16 0,6/1KV 12x2x1 mm ² | 1,8 | 25 | 1000 | 300 |
| 104900507 | 104501507 | FG16XOHH2M16 0,6/1KV 1x3x1 mm ² | 1,8 | 10,4 | 190 | 120 |
| 104900508 | 104501508 | FG16XHOH2M16 0,6/1KV 2x3x1 mm ² | 1,8 | 16,5 | 350 | 190 |
| 104900509 | 104501509 | FG16XHOH2M16 0,6/1KV 5x3x1 mm ² | 1,8 | 21 | 670 | 250 |
| 104900510 | 104501510 | FG16XHOH2M16 0,6/1KV 6x3x1 mm ² | 1,8 | 23 | 770 | 270 |
| 104900511 | 104501511 | FG16XHOH2M16 0,6/1KV 7x3x1 mm ² | 1,8 | 23,4 | 850 | 270 |
| 104900512 | 104501512 | FG16XOHH2M16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 10 | 170 | 120 |
| 104900513 | 104501513 | FG16XOHH2M16 0,6/1KV 1x3x1,5 mm ² | 1,8 | 10,5 | 200 | 130 |
| 104900514 | 104501514 | FG16XHOH2M16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 14,8 | 310 | 180 |
| 104900515 | 104501515 | FG16XHOH2M16 0,6/1KV 3x2x1,5 mm ² | 1,8 | 15,8 | 380 | 190 |
| 104900516 | 104501516 | FG16XHOH2M16 0,6/1KV 7x2x1,5 mm ² | 1,8 | 20,2 | 730 | 250 |
| 104900517 | 104501517 | FG16XHOH2M16 0,6/1KV 12x2x1,5 mm ² | 1,8 | 26 | 1120 | 310 |
| 104900518 | 104501518 | FG16XHOH2M16 0,6/1KV 3x3x1,5 mm ² | 1,8 | 18 | 520 | 220 |
| 104900519 | 104501519 | FG16XHOH2M16 0,6/1KV 7x3x1,5 mm ² | 1,8 | 25 | 960 | 300 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable – 105-1 CPR EU 305/2011

CU, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH.

IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 105-1/23 of 10/11/2023 Rev. 0

Type: FG16OHM16AM16 0,6/1Kv
Conductor: Flexible copper conductor according to IEC60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|----------------|
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,70 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |

Laying up: Twisted to cores UNEL color (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
 Colour: Grey/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OHM16AM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001mt"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60332-3-22, CEI20-22/2
- Low smoke and Halogen free as per IEC60754-2, CEI20-37/2
- Low smoke density emiss. IEC61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|--|------------------------|------------------------|--------------------|--------------|-------------------|
| 1051900501 | 1051703501 | FG160HM16AM16 0,6/1KV 4x1,5 mm ² | 9,3 | 1,8 | 14,5 | 360 | 205 |
| 1051900502 | 1051703502 | FG160HM16AM16 0,6/1KV 5x1,5 mm ² | 10,1 | 1,8 | 15,3 | 400 | 220 |
| 1051900503 | 1051703503 | FG160HM16AM16 0,6/1KV 6x1,5 mm ² | 10,8 | 1,8 | 16,2 | 450 | 230 |
| 1051900504 | 1051703504 | FG160HM16AM16 0,6/1KV 7x1,5 mm ² | 11,2 | 1,8 | 16,1 | 460 | 230 |
| 1051900505 | 1051703505 | FG160HM16AM16 0,6/1KV 10x1,5 mm ² | 13,6 | 1,8 | 18,6 | 600 | 260 |
| 1051900506 | 1051703506 | FG160HM16AM16 0,6/1KV 12x1,5 mm ² | 14,6 | 1,8 | 19,8 | 710 | 280 |
| 1051900507 | 1051703507 | FG160HM16AM16 0,6/1KV 16x1,5 mm ² | 15,8 | 1,8 | 21,1 | 840 | 300 |
| 1051900508 | 1051703508 | FG160HM16AM16 0,6/1KV 20x1,5 mm ² | 17,6 | 2,0 | 24,8 | 990 | 330 |
| 1051900509 | 1051703509 | FG160HM16AM16 0,6/1KV 24x1,5 mm ² | 20 | 2,0 | 27,2 | 1140 | 360 |
| 1051900510 | 1051703510 | FG160HM16AM16 0,6/1KV 4x2,5 mm ² | 10,3 | 1,8 | 15,3 | 430 | 220 |
| 1051900511 | 1051703511 | FG160HM16AM16 0,6/1KV 5x2,5 mm ² | 11,4 | 1,8 | 16,5 | 490 | 230 |
| 1051900512 | 1051703512 | FG160HM16AM16 0,6/1KV 6x2,5 mm ² | 12,2 | 1,8 | 17 | 540 | 240 |
| 1051900513 | 1051703513 | FG160HM16AM16 0,6/1KV 7x2,5 mm ² | 12,4 | 1,8 | 17,5 | 590 | 210 |
| 1051900514 | 1051703514 | FG160HM16AM16 0,6/1KV 10x2,5 mm ² | 15,6 | 1,8 | 21 | 800 | 290 |
| 1051900515 | 1051703515 | FG160HM16AM16 0,6/1KV 12x2,5 mm ² | 16,5 | 2,0 | 21,6 | 910 | 300 |
| 1051900516 | 1051703516 | FG160HM16AM16 0,6/1KV 16x2,5 mm ² | 18 | 2,0 | 23,3 | 1000 | 330 |
| 1051900517 | 1051703517 | FG160HM16AM16 0,6/1KV 24x2,5 mm ² | 22,8 | 2,0 | 28,6 | 1530 | 390 |
| 1051900518 | 1051703518 | FG160HM16AM16 0,6/1KV 2x4 mm ² | 10 | 1,8 | 15,1 | 380 | 210 |
| 1051900519 | 1051703519 | FG160HM16AM16 0,6/1KV 3x4 mm ² | 10,5 | 1,8 | 15,2 | 450 | 220 |
| 1051900520 | 1051703520 | FG160HM16AM16 0,6/1KV 4x4 mm ² | 11,6 | 1,8 | 16,5 | 530 | 230 |
| 1051900521 | 1051703521 | FG160HM16AM16 0,6/1KV 5x4 mm ² | 12,8 | 1,8 | 17,8 | 610 | 250 |
| 1051900522 | 1051703522 | FG160HM16AM16 0,6/1KV 7x4 mm ² | 14 | 2,0 | 19,4 | 780 | 280 |
| 1051900523 | 1051703523 | FG160HM16AM16 0,6/1KV 2x6 mm ² | 11,4 | 1,8 | 16,5 | 470 | 230 |
| 1051900524 | 1051703524 | FG160HM16AM16 0,6/1KV 3x6 mm ² | 12 | 1,8 | 17,2 | 560 | 230 |
| 1051900525 | 1051703525 | FG160HM16AM16 0,6/1KV 4x6 mm ² | 14,8 | 1,8 | 18,6 | 710 | 270 |
| 1051900526 | 1051703526 | FG160HM16AM16 0,6/1KV 5x6 mm ² | 17 | 2,0 | 20,4 | 810 | 290 |
| 1051900527 | 1051703527 | FG160HM16AM16 0,6/1KV 2x10 mm ² | 17,5 | 2,0 | 21,3 | 700 | 310 |
| 1051900528 | 1051703528 | FG160HM16AM16 0,6/1KV 3x10 mm ² | 17,8 | 2,0 | 21,3 | 870 | 310 |
| 1051900529 | 1051703529 | FG160HM16AM16 0,6/1KV 2x16 mm ² | 19 | 2,0 | 23,3 | 910 | 340 |
| 1051900530 | 1051703530 | FG160HM16AM16 0,6/1KV 3x16 mm ² | 19,6 | 2,0 | 24 | 1160 | 350 |
| 1051900531 | 1051703531 | FG160HM16AM16 0,6/1Kv 2x25 mm ² | 20,2 | 2,0 | 24,3 | 1200 | 350 |
| 1051900532 | 1051703532 | FG160HM16AM16 0,6/1Kv 3x25 mm ² | 21 | 2,0 | 25,7 | 1570 | 370 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable – 105-2 CPR EU 305/2011

**CU, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 105-2/23 of 10/11/2023 Rev. 0

Type: FG16OHM16FM16 0,6/1 KV
Conductor: Flexible copper conductor according to IEC60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|----------------|
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,70 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |

Laying up: Twisted to cores UNEL color (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

Outer sheath: M16 LSZH extruded compound
 Colour: Grey/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OHM16FM16 0,6/1 KV Siz. IEC 60332.3
 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001mt"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60332-3-22, CEI20-22/2
- Low smoke and Halogen free as per IEC60754-2, CEI20-37/2
- Low smoke density emiss. IEC61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | Ø OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|--|------------------------|------------------------|--------------------|--------------|-------------------|
| 1051900501 | 1051703501 | FG16OHM16FM16 0,6/1Kv 4x1,5 mm ² | 9,3 | 1,8 | 14,9 | 368 | 205 |
| 1052900502 | 1052703502 | FG16OHM16FM16 0,6/1Kv 5x1,5 mm ² | 10,1 | 1,8 | 15,8 | 410 | 220 |
| 1052900503 | 1052703503 | FG16OHM16FM16 0,6/1Kv 6x1,5 mm ² | 10,8 | 1,8 | 16,7 | 440 | 230 |
| 1052900504 | 1052703504 | FG16OHM16FM16 0,6/1Kv 7x1,5 mm ² | 11,2 | 1,8 | 16,6 | 480 | 230 |
| 1052900505 | 1052703505 | FG16OHM16FM16 0,6/1Kv 10x1,5 mm ² | 13,6 | 1,8 | 19,2 | 620 | 260 |
| 1052900506 | 1052703506 | FG16OHM16FM16 0,6/1Kv 12x1,5 mm ² | 14,6 | 1,8 | 20,4 | 730 | 280 |
| 1052900507 | 1052703507 | FG16OHM16FM16 0,6/1Kv 16x1,5 mm ² | 15,8 | 1,8 | 21,8 | 870 | 300 |
| 1052900508 | 1052703508 | FG16OHM16FM16 0,6/1Kv 20x1,5 mm ² | 17,6 | 2,0 | 25,6 | 1020 | 330 |
| 1052900509 | 1052703509 | FG16OHM16FM16 0,6/1Kv 24x1,5 mm ² | 20 | 2,0 | 28 | 1180 | 360 |
| 1052900510 | 1052703510 | FG16OHM16FM16 0,6/1Kv 4x2,5 mm ² | 10,3 | 1,8 | 15,8 | 440 | 220 |
| 1052900511 | 1052703511 | FG16OHM16FM16 0,6/1Kv 5x2,5 mm ² | 11,4 | 1,8 | 17 | 510 | 230 |
| 1052900512 | 1052703512 | FG16OHM16FM16 0,6/1Kv 6x2,5 mm ² | 12,2 | 1,8 | 17,6 | 560 | 240 |
| 1052900513 | 1052703513 | FG16OHM16FM16 0,6/1Kv 7x2,5 mm ² | 12,4 | 1,8 | 18 | 610 | 210 |
| 1052900514 | 1052703514 | FG16OHM16FM16 0,6/1Kv 10x2,5 mm ² | 15,6 | 1,8 | 21,6 | 830 | 290 |
| 1052900515 | 1052703515 | FG16OHM16FM16 0,6/1Kv 12x2,5 mm ² | 16,5 | 2,0 | 22,3 | 940 | 300 |
| 1052900516 | 1052703516 | FG16OHM16FM16 0,6/1Kv 16x2,5 mm ² | 18 | 2,0 | 24 | 1140 | 330 |
| 1052900517 | 1052703517 | FG16OHM16FM16 0,6/1Kv 24x2,5 mm ² | 22,8 | 2,0 | 29,5 | 1580 | 390 |
| 1052900518 | 1052703518 | FG16OHM16FM16 0,6/1Kv 2x4 mm ² | 10 | 1,8 | 15,6 | 390 | 210 |
| 1052900519 | 1052703519 | FG16OHM16FM16 0,6/1Kv 3x4 mm ² | 10,5 | 1,8 | 16 | 470 | 220 |
| 1052900520 | 1052703520 | FG16OHM16FM16 0,6/1Kv 4x4 mm ² | 11,6 | 1,8 | 17,2 | 550 | 230 |
| 1052900521 | 1052703521 | FG16OHM16FM16 0,6/1Kv 5x4 mm ² | 12,8 | 1,8 | 18,3 | 630 | 250 |
| 1052900522 | 1052703522 | FG16OHM16FM16 0,6/1Kv 7x4 mm ² | 14 | 2,0 | 20 | 810 | 280 |
| 1052900523 | 1052703523 | FG16OHM16FM16 0,6/1Kv 2x6 mm ² | 11,4 | 1,8 | 17 | 480 | 230 |
| 1052900524 | 1052703524 | FG16OHM16FM16 0,6/1Kv 3x6 mm ² | 12 | 1,8 | 17,7 | 580 | 230 |
| 1052900525 | 1052703525 | FG16OHM16FM16 0,6/1Kv 4x6 mm ² | 14,8 | 1,8 | 19,2 | 730 | 270 |
| 1052900526 | 1052703526 | FG16OHM16FM16 0,6/1Kv 5x6 mm ² | 17 | 2,0 | 21 | 840 | 290 |
| 1052900527 | 1052703527 | FG16OHM16FM16 0,6/1Kv 2x10 mm ² | 17,5 | 2,0 | 22 | 720 | 310 |
| 1052900528 | 1052703528 | FG16OHM16FM16 0,6/1Kv 3x10 mm ² | 17,8 | 2,0 | 22 | 900 | 310 |
| 1052900529 | 1052703529 | FG16OHM16FM16 0,6/1Kv 2x16 mm ² | 19 | 2,0 | 24 | 940 | 340 |
| 1052900530 | 1052703530 | FG16OHM16FM16 0,6/1Kv 3x16 mm ² | 19,6 | 2,0 | 24,8 | 1200 | 350 |
| 1052900531 | 1052703531 | FG16OHM16FM16 0,6/1Kv 2x25 mm ² | 20,2 | 2,0 | 25 | 1240 | 350 |
| 1052900532 | 1052703532 | FG16OHM16FM16 0,6/1Kv 3x25 mm ² | 21 | 2,0 | 26,5 | 1620 | 370 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable - 106

CPR EU 305/2011

Cca s1b-d1-a1

CU, G16 INSULATION, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 106/23 of 10/11/2023 Rev. 0

Type: FG16OM16 0,6/1 KV

Conductor: Flexible tinned and/or plain copper conductor according to IEC 60228 cl.5

Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 1,50 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,7 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |
| 35 mm ² | 0,90 ± 0,02 mm |
| 50 mm ² | 1,00 ± 0,02 mm |
| 70 mm ² | 1,10 ± 0,02 mm |
| 95 mm ² | 1,10 ± 0,02 mm |
| 120 mm ² | 1,20 ± 0,02 mm |

Laying up: Twisted to core, UNEL (or to be agreed)

Inner sheath: Extruded compound (if required)

Outer sheath: M16 LSZH extruded compound
 Colour: Grey/Black/Green (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OM16 0,6/1 KV Siz. IEC 60332.3
 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m CE"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC60 332-3-22, CEI 20-22/2
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance \leq 0,90 mH/Km
- Capacitance \leq 0,200 μ F/Km

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|---------------------------|--------------------|--------------|-------------------|
| 106900501 | 106703501 | FG160M16 0,6/1KV 2x1,5 mm ² | 1,8 | 9,5 | 260 | 80 |
| 106900502 | 106703502 | FG160M16 0,6/1KV 3x1,5 mm ² | 1,8 | 9,9 | 300 | 80 |
| 106900503 | 106703503 | FG160M16 0,6/1KV 4x1,5 mm ² | 1,8 | 10,7 | 340 | 85 |
| 106900504 | 106703504 | FG160M16 0,6/1KV 5x1,5 mm ² | 1,8 | 11,5 | 390 | 90 |
| 106900505 | 106703505 | FG160M16 0,6/1KV 6x1,5 mm ² | 1,8 | 12,2 | 440 | 100 |
| 106900506 | 106703506 | FG160M16 0,6/1KV 7x1,5 mm ² | 1,8 | 12,4 | 460 | 100 |
| 106900507 | 106703507 | FG160M16 0,6/1KV 10x1,5 mm ² | 1,8 | 15,2 | 380 | 120 |
| 106900508 | 106703508 | FG160M16 0,6/1KV 12x1,5 mm ² | 1,8 | 15,8 | 420 | 120 |
| 106900509 | 106703509 | FG160M16 0,6/1KV 16x1,5 mm ² | 1,8 | 17,8 | 550 | 145 |
| 106900510 | 106703510 | FG160M16 0,6/1KV 20x1,5 mm ² | 2,0 | 19,6 | 650 | 160 |
| 106900511 | 106703511 | FG160M16 0,6/1KV 24x1,5 mm ² | 2,0 | 21,7 | 780 | 175 |
| 106900512 | 106703512 | FG160M16 0,6/1KV 48x1,5 mm ² | 2,0 | 28 | 1380 | 220 |
| 106900513 | 106703513 | FG160M16 0,6/1KV 2x2,5 mm ² | 1,8 | 10,4 | 160 | 85 |
| 106900514 | 106703514 | FG160M16 0,6/1KV 3x2,5 mm ² | 1,8 | 10,9 | 200 | 85 |
| 106900515 | 106703515 | FG160M16 0,6/1KV 4x2,5 mm ² | 1,8 | 11,8 | 240 | 100 |
| 106900516 | 106703516 | FG160M16 0,6/1KV 5x2,5 mm ² | 1,8 | 13 | 300 | 100 |
| 106900517 | 106703517 | FG160M16 0,6/1KV 6x2,5 mm ² | 1,8 | 13,8 | 340 | 110 |
| 106900518 | 106703518 | FG160M16 0,6/1KV 7x2,5 mm ² | 1,8 | 14 | 380 | 120 |
| 106900519 | 106703519 | FG160M16 0,6/1KV 10x2,5 mm ² | 1,8 | 17,6 | 520 | 145 |
| 106900520 | 106703520 | FG160M16 0,6/1KV 12x2,5 mm ² | 1,8 | 18 | 590 | 145 |
| 106900521 | 106703521 | FG160M16 0,6/1KV 16x2,5 mm ² | 2,0 | 20 | 750 | 160 |
| 106900522 | 106703522 | FG160M16 0,6/1KV 20x2,5 mm ² | 2,0 | 22 | 910 | 175 |
| 106900523 | 106703523 | FG160M16 0,6/1KV 24x2,5 mm ² | 2,0 | 24,5 | 1080 | 200 |
| 106900524 | 106703524 | FG160M16 0,6/1KV 48x2,5 mm ² | 2,0 | 32 | 1980 | 260 |
| 106900525 | 106703525 | FG160M16 0,6/1KV 2x 4 mm ² | 1,8 | 11,4 | 200 | 90 |

| | | | | | | | | |
|-----------|-----------|----------|---------|------------------------|-----|------|------|-----|
| 106900526 | 106703526 | FG160M16 | 0,6/1KV | 3x4 mm ² | 1,8 | 11,9 | 260 | 90 |
| 106900527 | 106703527 | FG160M16 | 0,6/1KV | 4x4 mm ² | 1,8 | 13 | 320 | 100 |
| 106900528 | 106703528 | FG160M16 | 0,6/1KV | 5x4 mm ² | 1,8 | 14,5 | 400 | 115 |
| 106900529 | 106703529 | FG160M16 | 0,6/1KV | 7x4 mm ² | 1,8 | 15,7 | 510 | 130 |
| 106900530 | 106703530 | FG160M16 | 0,6/1KV | 2x6 mm ² | 1,8 | 13 | 270 | 100 |
| 106900531 | 106703531 | FG160M16 | 0,6/1KV | 3x6 mm ² | 1,8 | 13,8 | 350 | 110 |
| 106900532 | 106703532 | FG160M16 | 0,6/1KV | 4x6 mm ² | 1,8 | 15 | 440 | 120 |
| 106900533 | 106703533 | FG160M16 | 0,6/1KV | 5x 6 mm ² | 2,0 | 16,4 | 520 | 130 |
| 106900534 | 106703534 | FG160M16 | 0,6/1KV | 2x10 mm ² | 1,8 | 16,8 | 420 | 135 |
| 106900535 | 106703535 | FG160M16 | 0,6/1KV | 3x10 mm ² | 1,8 | 18 | 550 | 140 |
| 106900536 | 106703536 | FG160M16 | 0,6/1KV | 4x10 mm ² | 1,8 | 19,4 | 700 | 155 |
| 106900537 | 106703537 | FG160M16 | 0,6/1KV | 5x10 mm ² | 2,0 | 21,5 | 840 | 170 |
| 106900538 | 106703538 | FG160M16 | 0,6/1KV | 2x16 mm ² | 1,8 | 19 | 580 | 150 |
| 106900539 | 106703539 | FG160M16 | 0,6/1KV | 3x16 mm ² | 2,0 | 20,5 | 780 | 160 |
| 106900540 | 106703540 | FG160M16 | 0,6/1KV | 4x16 mm ² | 2,0 | 22,5 | 990 | 180 |
| 106900541 | 106703541 | FG160M16 | 0,6/1KV | 5x16 mm ² | 2,0 | 24,6 | 1200 | 200 |
| 106900542 | 106703542 | FG160M16 | 0,6/1KV | 3x25 mm ² | 2,0 | 24 | 1100 | 200 |
| 106900543 | 106703543 | FG160M16 | 0,6/1KV | 4x25 mm ² | 2,0 | 26,5 | 1400 | 210 |
| 106900544 | 106703544 | FG160M16 | 0,6/1KV | 5x25 mm ² | 2,0 | 29 | 1700 | 230 |
| 106900545 | 106703545 | FG160M16 | 0,6/1KV | 3x35 mm ² | 2,0 | 26,6 | 1480 | 210 |
| 106900546 | 106703546 | FG160M16 | 0,6/1KV | 3½x35 mm ² | 2,0 | 29 | 1650 | 230 |
| 106900547 | 106703547 | FG160M16 | 0,6/1Kv | 5x35 mm ² | 2,0 | 32,4 | 2200 | 260 |
| 106900548 | 106703548 | FG160M16 | 0,6/1KV | 3x50 mm ² | 2,0 | 30,6 | 1990 | 240 |
| 106900549 | 106703549 | FG160M16 | 0,6/1KV | 3½x50 mm ² | 2,0 | 32 | 2200 | 260 |
| 106900550 | 106703550 | FG160M16 | 0,6/1KV | 3x70 mm ² | 2,0 | 35 | 2650 | 280 |
| 106900551 | 106703551 | FG160M16 | 0,6/1KV | 3½x70 mm ² | 2,0 | 38 | 3000 | 300 |
| 106900552 | 106703552 | FG160M16 | 0,6/1KV | 3x95 mm ² | 2,0 | 39 | 3400 | 310 |
| 106900553 | 106703553 | FG160M16 | 0,6/1KV | 3½x95 mm ² | 2,0 | 43 | 4000 | 340 |
| 106900554 | 106703554 | FG160M16 | 0,6/1KV | 3x120 mm ² | 2,0 | 43 | 4300 | 340 |
| 106900555 | 106703555 | FG160M16 | 0,6/1KV | 3½x120 mm ² | 2,0 | 46,5 | 4700 | 370 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Control and power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable – 107-1

CPR EU 305/2011

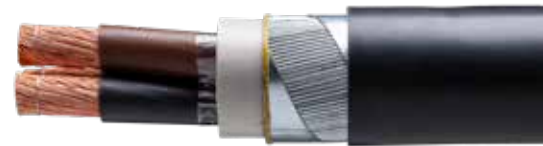
**CU, G16 INSULATION, R16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, R16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3**

Technical Specifications n° 107-1/23 of 10/11/2023 Rev. 0

Type: FG16OR16AR16 0,6/1KV

Conductor: Flexible copper conductor according to IEC 60228 cl.5

Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 1,50 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,7 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |
| 35 mm ² | 0,90 ± 0,02 mm |
| 50 mm ² | 1,00 ± 0,02 mm |
| 70 mm ² | 1,10 ± 0,02 mm |
| 95 mm ² | 1,10 ± 0,02 mm |
| 120 mm ² | 1,20 ± 0,02 mm |

Laying up: Twisted to core, UNEL (or to be agreed)

Inner sheath: R16 PVC extruded compound

Armour: Galvanized steel wires braid (SWB)

Outer sheath: R16 PVC extruded compound
Colour: Grey/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OR16AR16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s3-d1-a3 001 m"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60 332-3-22, CEI 20-22/2
- Low smoke and fume as per IEC 60754-2, CEI 20-37/2

- HCL emission \leq 18%
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- Cable for intrinsically safe application
- Inductance \leq 0,90 mH/Km
- Capacitance \leq 0,200 μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved cables Cca s3,d1,a3

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | \varnothing OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------------------|------------------------|--------------------|--------------|-------------------|
| 1071900501 | 1071703501 | FG16OR16AR16 0,6/1KV 2x1,5 mm ² | 7,9 | 1,8 | 13 | 250 | 190 |
| 1071900502 | 1071703502 | FG16OR16AR16 0,6/1KV 3x1,5 mm ² | 8,4 | 1,8 | 13,4 | 290 | 190 |
| 1071900503 | 1071703503 | FG16OR16AR16 0,6/1KV 4x1,5 mm ² | 9 | 1,8 | 14,2 | 330 | 200 |
| 1071900504 | 1071703504 | FG16OR16AR16 0,6/1KV 5x1,5 mm ² | 10 | 1,8 | 15 | 380 | 210 |
| 1071900505 | 1071703505 | FG16OR16AR16 0,6/1KV 6x1,5 mm ² | 10,6 | 1,8 | 15,9 | 430 | 220 |
| 1071900506 | 1071703506 | FG16OR16AR16 0,6/1KV 7x1,5 mm ² | 10,8 | 1,8 | 16 | 450 | 220 |
| 1071900507 | 1071703507 | FG16OR16AR16 0,6/1KV 10x1,5 mm ² | 13,6 | 1,8 | 18,6 | 600 | 260 |
| 1071900508 | 1071703508 | FG16OR16AR16 0,6/1KV 12x1,5mm ² | 14,2 | 1,8 | 19,4 | 650 | 270 |
| 1071900509 | 1071703509 | FG16OR16AR16 0,6/1KV 16x1,5mm ² | 15,8 | 1,8 | 20,8 | 800 | 290 |
| 1071900510 | 1071703510 | FG16OR16AR16 0,6/1KV 19x1,5mm ² | 17,6 | 2,0 | 23,8 | 970 | 340 |
| 1071900511 | 1071703511 | FG16OR16AR16 0,6/1KV 20x1,5mm ² | 18 | 2,0 | 24,2 | 990 | 340 |
| 1071900512 | 1071703512 | FG16OR16AR16 0,6/1KV 24x1,5 mm ² | 20 | 2,0 | 24,7 | 1080 | 350 |
| 1071900513 | 1071703513 | FG16OR16AR16 0,6/1KV 48x1,5 mm ² | 26 | 2,0 | 31 | 1940 | 440 |
| 1071900514 | 1071703514 | FG16OR16AR16 0,6/1KV 2x2,5 mm ² | 9 | 1,8 | 14 | 300 | 200 |
| 1071900515 | 1071703515 | FG16OR16AR16 0,6/1KV 3x2,5 mm ² | 9,4 | 1,8 | 14,4 | 360 | 200 |
| 1071900516 | 1071703516 | FG16OR16AR16 0,6/1KV 4x2,5 mm ² | 10,2 | 1,8 | 15,2 | 410 | 220 |
| 1071900517 | 1071703517 | FG16OR16AR16 0,6/1KV 5x2,5 mm ² | 11,2 | 1,8 | 16,3 | 460 | 230 |
| 1071900518 | 1071703518 | FG16OR16AR16 0,6/1KV 6x2,5 mm ² | 12,4 | 1,8 | 17,2 | 540 | 240 |
| 1071900519 | 1071703519 | FG16OR16AR16 0,6/1KV 7x2,5 mm ² | 12,2 | 1,8 | 17,6 | 590 | 240 |
| 1071900520 | 1071703520 | FG16OR16AR16 0,6/1KV 10x2,5 mm ² | 15,8 | 1,8 | 21 | 800 | 300 |
| 1071900521 | 1071703521 | FG16OR16AR16 0,6/1KV 12x2,5 mm ² | 16 | 1,8 | 21,1 | 840 | 300 |
| 1071900522 | 1071703522 | FG16OR16AR16 0,6/1KV 16x2,5 mm ² | 18,2 | 2,0 | 23 | 1110 | 330 |
| 1071900523 | 1071703523 | FG16OR16AR16 0,6/1KV 20x2,5 mm ² | 20,6 | 2,0 | 25,2 | 1310 | 350 |
| 1071900524 | 1071703524 | FG16OR16AR16 0,6/1KV 24x2,5 mm ² | 23 | 2,0 | 28 | 1450 | 400 |
| 1071900525 | 1071703525 | FG16OR16AR16 0,6/1KV 48x2,5 mm ² | 29 | 2,0 | 33 | 2660 | 460 |
| 1071900526 | 1071703526 | FG16OR16AR16 0,6/1KV 2x4 mm ² | 9,8 | 1,8 | 15 | 360 | 210 |

| | | | | | | | | | |
|------------|------------|--------------|---------|------------------------|------|-----|------|------|-----|
| 1071900527 | 1071703527 | FG16OR16AR16 | 0,6/1KV | 3x4 mm ² | 10,3 | 1,8 | 15,5 | 430 | 210 |
| 1071900528 | 1071703528 | FG16OR16AR16 | 0,6/1KV | 4x4 mm ² | 11,5 | 1,8 | 16,5 | 500 | 220 |
| 1071900529 | 1071703529 | FG16OR16AR16 | 0,6/1KV | 5x4 mm ² | 12,5 | 1,8 | 16,9 | 590 | 230 |
| 1071900530 | 1071703530 | FG16OR16AR16 | 0,6/1KV | 7x4 mm ² | 13,7 | 1,8 | 19,1 | 770 | 260 |
| 1071900531 | 1071703531 | FG16OR16AR16 | 0,6/1KV | 2x6 mm ² | 11,2 | 1,8 | 16,5 | 440 | 220 |
| 1071900532 | 1071703532 | FG16OR16AR16 | 0,6/1KV | 3x6 mm ² | 11,8 | 1,8 | 17 | 530 | 230 |
| 1071900533 | 1071703533 | FG16OR16AR16 | 0,6/1KV | 4x6 mm ² | 13 | 1,8 | 18 | 650 | 250 |
| 1071900534 | 1071703534 | FG16OR16AR16 | 0,6/1KV | 5x6 mm ² | 14,6 | 2,0 | 20 | 760 | 280 |
| 1071900535 | 1071703535 | FG16OR16AR16 | 0,6/1KV | 2x10 mm ² | 14,8 | 1,8 | 20,1 | 640 | 280 |
| 1071900536 | 1071703536 | FG16OR16AR16 | 0,6/1KV | 3x10 mm ² | 15,8 | 1,8 | 20,8 | 800 | 290 |
| 1071900537 | 1071703537 | FG16OR16AR16 | 0,6/1KV | 4x10 mm ² | 18 | 1,8 | 22,8 | 1020 | 320 |
| 1071900538 | 1071703538 | FG16OR16AR16 | 0,6/1KV | 5x10 mm ² | 20 | 2,0 | 24,8 | 1200 | 350 |
| 1071900539 | 1071703539 | FG16OR16AR16 | 0,6/1KV | 2x16 mm ² | 18 | 1,8 | 22,7 | 870 | 320 |
| 1071900540 | 1071703540 | FG16OR16AR16 | 0,6/1KV | 3x16 mm ² | 19 | 2,0 | 24,3 | 1150 | 340 |
| 1071900541 | 1071703541 | FG16OR16AR16 | 0,6/1KV | 4x16 mm ² | 21 | 2,0 | 26 | 1420 | 370 |
| 1071900542 | 1071703542 | FG16OR16AR16 | 0,6/1KV | 5x16 mm ² | 23 | 2,0 | 28,1 | 1700 | 400 |
| 1071900543 | 1071703543 | FG16OR16AR16 | 0,6/1KV | 3x25 mm ² | 22 | 2,0 | 27,1 | 1550 | 380 |
| 1071900544 | 1071703544 | FG16OR16AR16 | 0,6/1KV | 4x25 mm ² | 24,5 | 2,0 | 29,1 | 1940 | 410 |
| 1071900545 | 1071703545 | FG16OR16AR16 | 0,6/1KV | 5x25 mm ² | 27 | 2,0 | 32 | 2330 | 450 |
| 1071900546 | 1071703546 | FG16OR16AR16 | 0,6/1KV | 3x35 mm ² | 25 | 2,0 | 29,1 | 1980 | 410 |
| 1071900547 | 1071703547 | FG16OR16AR16 | 0,6/1KV | 3½x35 mm ² | 27 | 2,0 | 32 | 2500 | 450 |
| 1071900548 | 1071703548 | FG16OR16AR16 | 0,6/1KV | 5x35 mm ² | 34 | 2,0 | 38,8 | 3000 | 550 |
| 1071900549 | 1071703549 | FG16OR16AR16 | 0,6/1KV | 3x50 mm ² | 29 | 2,0 | 33 | 2620 | 470 |
| 1071900550 | 1071703550 | FG16OR16AR16 | 0,6/1KV | 3½x50 mm ² | 31 | 2,0 | 35,9 | 3320 | 360 |
| 1071900551 | 1071703551 | FG16OR16AR16 | 0,6/1KV | 3x70 mm ² | 33 | 2,0 | 36,9 | 3420 | 520 |
| 1071900552 | 1071703552 | FG16OR16AR16 | 0,6/1KV | 3½x70 mm ² | 36 | 2,0 | 40,8 | 4360 | 570 |
| 1071900553 | 1071703553 | FG16OR16AR16 | 0,6/1KV | 3x95 mm ² | 36 | 2,0 | 38,7 | 4400 | 540 |
| 1071900554 | 1071703554 | FG16OR16AR16 | 0,6/1KV | 3½x95 mm ² | 41 | 2,0 | 44,6 | 5630 | 630 |
| 1071900555 | 1071703555 | FG16OR16AR16 | 0,6/1KV | 3x120 mm ² | 42 | 2,0 | 45,6 | 5340 | 640 |
| 1071900556 | 1071703556 | FG16OR16AR16 | 0,6/1KV | 3½x120 mm ² | 44 | 2,0 | 48,5 | 6870 | 680 |
| 1071900557 | 1071703557 | FG16OR16AR16 | 0,6/1KV | 5 G 50 mm ² | 35 | 2,0 | 38,8 | 3400 | 540 |

Weight and diameter: Are theoretical + / - 10%

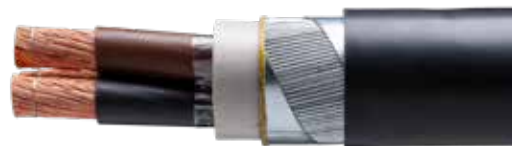
Intended use: Control and power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable – 107-2 CPR EU 305/2011

CU, G16 INSULATION, R16 INNER SHEATH, STEEL WIRE ARMOUR, R16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3

Technical Specifications n° 107-2/23 of 10/11/2023 Rev. 0

Type: FG16OR16FR16 0,6/1 KV
Conductor: Flexible copper conductor according to IEC 60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 1,50 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,7 ± 0,02 mm |
| 6 mm ² | 0,70 ± 0,02 mm |
| 10 mm ² | 0,70 ± 0,02 mm |
| 16 mm ² | 0,70 ± 0,02 mm |
| 25 mm ² | 0,90 ± 0,02 mm |
| 35 mm ² | 0,90 ± 0,02 mm |
| 50 mm ² | 1,00 ± 0,02 mm |
| 70 mm ² | 1,10 ± 0,02 mm |
| 95 mm ² | 1,10 ± 0,02 mm |
| 120 mm ² | 1,20 ± 0,02 mm |

Laying up: Twisted to core, UNEL (or to be agreed)
Inner sheath: R16 PVC extruded compound
Armour: Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)
Outer sheath: R16 PVC extruded compound
 Colour: Grey/Black (or to be agreed)
Marking: On the outer sheath "Sensitherm – FG16OR16FR16 0,6/1 KV Siz. IEC 60332.3
 WWW/YY (Batch/Num.) Cca s3-d1-a3 001 m"
Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60 332-3-22, CEI 20-22/2
- Low smoke and fume as per IEC 60754-2, CEI 20-37/2
- HCL emission < /= 18%
- Hydrocarbon and UV resistant

- Rodent resistant
- Fit for direct burial
- Cable for intrinsically safe application
- Inductance $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved cables Cca s3,d1,a3

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | \emptyset OVER INNER SHEATH MM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|----------------------------------|------------------------|--------------------|--------------|-------------------|
| 1072900501 | 1072703501 | FG16OR16FR16 0,6/1KV 2x1,5 mm ² | 7,9 | 1,8 | 13,4 | 260 | 190 |
| 1072900502 | 1072703502 | FG16OR16FR16 0,6/1KV 3x1,5 mm ² | 8,4 | 1,8 | 13,8 | 300 | 190 |
| 1072900503 | 1072703503 | FG16OR16FR16 0,6/1KV 4x1,5 mm ² | 9 | 1,8 | 14,6 | 340 | 200 |
| 1072900504 | 1072703504 | FG16OR16FR16 0,6/1KV 5x1,5 mm ² | 10 | 1,8 | 15,5 | 390 | 220 |
| 1072900505 | 1072703505 | FG16OR16FR16 0,6/1KV 6x1,5 mm ² | 10,6 | 1,8 | 16,4 | 440 | 230 |
| 1072900506 | 1072703506 | FG16OR16FR16 0,6/1KV 7x1,5 mm ² | 10,8 | 1,8 | 16,5 | 460 | 230 |
| 1072900507 | 1072703507 | FG16OR16FR16 0,6/1KV 10x1,5 mm ² | 13,6 | 1,8 | 19,2 | 620 | 270 |
| 1072900508 | 1072703508 | FG16OR16FR16 0,6/1KV 12x1,5mm ² | 14,2 | 1,8 | 20 | 670 | 280 |
| 1072900509 | 1072703509 | FG16OR16FR16 0,6/1KV 16x1,5mm ² | 15,8 | 1,8 | 21,5 | 830 | 300 |
| 1072900510 | 1072703510 | FG16OR16FR16 0,6/1KV 19x1,5mm ² | 17,6 | 2,0 | 24,5 | 1000 | 350 |
| 1072900511 | 1072703511 | FG16OR16FR16 0,6/1KV 20x1,5mm ² | 18 | 2,0 | 25 | 1020 | 360 |
| 1072900512 | 1072703512 | FG16OR16FR16 0,6/1KV 24x1,5 mm ² | 20 | 2,0 | 25,5 | 1110 | 360 |
| 1072900513 | 1072703513 | FG16OR16FR16 0,6/1KV 48x1,5 mm ² | 26 | 2,0 | 32 | 2000 | 450 |
| 1072900514 | 1072703514 | FG16OR16FR16 0,6/1KV 2x2,5 mm ² | 9 | 1,8 | 14,4 | 310 | 200 |
| 1072900515 | 1072703515 | FG16OR16FR16 0,6/1KV 3x2,5 mm ² | 9,4 | 1,8 | 14,8 | 360 | 210 |
| 1072900516 | 1072703516 | FG16OR16FR16 0,6/1KV 4x2,5 mm ² | 10,2 | 1,8 | 15,7 | 420 | 220 |
| 1072900517 | 1072703517 | FG16OR16FR16 0,6/1KV 5x2,5 mm ² | 11,2 | 1,8 | 16,8 | 480 | 240 |
| 1072900518 | 1072703518 | FG16OR16FR16 0,6/1KV 6x2,5 mm ² | 12,4 | 1,8 | 17,8 | 560 | 250 |
| 1072900519 | 1072703519 | FG16OR16FR16 0,6/1KV 7x2,5 mm ² | 12,2 | 1,8 | 18,2 | 610 | 260 |
| 1072900520 | 1072703520 | FG16OR16FR16 0,6/1KV 10x2,5 mm ² | 15,8 | 1,8 | 21,6 | 830 | 300 |
| 1072900521 | 1072703521 | FG16OR16FR16 0,6/1KV 12x2,5 mm ² | 16 | 1,8 | 21,8 | 870 | 310 |
| 1072900522 | 1072703522 | FG16OR16FR16 0,6/1KV 16x2,5 mm ² | 18,2 | 2,0 | 23,8 | 1140 | 340 |
| 1072900523 | 1072703523 | FG16OR16FR16 0,6/1KV 20x2,5 mm ² | 20,6 | 2,0 | 26 | 1350 | 370 |
| 1072900524 | 1072703524 | FG16OR16FR16 0,6/1KV 24x2,5 mm ² | 23 | 2,0 | 28,8 | 1500 | 410 |
| 1072900525 | 1072703525 | FG16OR16FR16 0,6/1KV 48x2,5 mm ² | 29 | 2,0 | 34 | 2740 | 480 |
| 1072900526 | 1072703526 | FG16OR16FR16 0,6/1KV 2x4 mm ² | 9,8 | 1,8 | 15,4 | 370 | 220 |
| 1072900527 | 1072703527 | FG16OR16FR16 0,6/1KV 3x4 mm ² | 10,3 | 1,8 | 16 | 440 | 220 |
| 1072900528 | 1072703528 | FG16OR16FR16 0,6/1KV 4x4 mm ² | 11,5 | 1,8 | 17 | 520 | 240 |
| 1072900529 | 1072703529 | FG16OR16FR16 0,6/1KV 5x4 mm ² | 12,5 | 1,8 | 18 | 610 | 260 |

| | | | | | | | | |
|------------|------------|--------------|--------------------------------|------|-----|------|------|-----|
| 1072900530 | 1072703530 | FG16OR16FR16 | 0,6/1KV 7x4 mm ² | 13,7 | 1,8 | 19,7 | 790 | 280 |
| 1072900531 | 1072703531 | FG16OR16FR16 | 0,6/1KV 2x6 mm ² | 11,2 | 1,8 | 17 | 450 | 240 |
| 1072900532 | 1072703532 | FG16OR16FR16 | 0,6/1KV 3x6 mm ² | 11,8 | 1,8 | 17,5 | 550 | 250 |
| 1072900533 | 1072703533 | FG16OR16FR16 | 0,6/1KV 4x6 mm ² | 13 | 1,8 | 18,6 | 670 | 270 |
| 1072900534 | 1072703534 | FG16OR16FR16 | 0,6/1KV 5x6 mm ² | 14,6 | 2,0 | 20,6 | 780 | 290 |
| 1072900535 | 1072703535 | FG16OR16FR16 | 0,6/1KV 2x10 mm ² | 14,8 | 1,8 | 20,8 | 660 | 290 |
| 1072900536 | 1072703536 | FG16OR16FR16 | 0,6/1KV 3x10 mm ² | 15,8 | 1,8 | 21,4 | 830 | 300 |
| 1072900537 | 1072703537 | FG16OR16FR16 | 0,6/1KV 4x10 mm ² | 18 | 1,8 | 23,5 | 1050 | 330 |
| 1072900538 | 1072703538 | FG16OR16FR16 | 0,6/1KV 5x10 mm ² | 20 | 2,0 | 25,6 | 1240 | 360 |
| 1072900539 | 1072703539 | FG16OR16FR16 | 0,6/1KV 2x16 mm ² | 18 | 1,8 | 23,4 | 900 | 330 |
| 1072900540 | 1072703540 | FG16OR16FR16 | 0,6/1KV 3x16 mm ² | 19 | 2,0 | 25 | 1190 | 360 |
| 1072900541 | 1072703541 | FG16OR16FR16 | 0,6/1KV 4x16 mm ² | 21 | 2,0 | 26,8 | 1470 | 380 |
| 1072900542 | 1072703542 | FG16OR16FR16 | 0,6/1KV 5x16 mm ² | 23 | 2,0 | 29 | 1760 | 410 |
| 1072900543 | 1072703543 | FG16OR16FR16 | 0,6/1KV 3x25 mm ² | 22 | 2,0 | 28 | 1600 | 390 |
| 1072900544 | 1072703544 | FG16OR16FR16 | 0,6/1KV 4x25 mm ² | 24,5 | 2,0 | 30 | 2000 | 430 |
| 1072900545 | 1072703545 | FG16OR16FR16 | 0,6/1KV 5x25 mm ² | 27 | 2,0 | 33 | 2400 | 460 |
| 1072900546 | 1072703546 | FG16OR16FR16 | 0,6/1KV 3x35 mm ² | 25 | 2,0 | 30 | 2040 | 430 |
| 1072900547 | 1072703547 | FG16OR16FR16 | 0,6/1KV 3½x35 mm ² | 27 | 2,0 | 33 | 2580 | 460 |
| 1072900548 | 1072703548 | FG16OR16FR16 | 0,6/1KV 5x35 mm ² | 34 | 2,0 | 40 | 3100 | 560 |
| 1072900549 | 1072703549 | FG16OR16FR16 | 0,6/1KV 3x50 mm ² | 29 | 2,0 | 34 | 2700 | 480 |
| 1072900550 | 1072703550 | FG16OR16FR16 | 0,6/1KV 3½x50 mm ² | 31 | 2,0 | 37 | 3420 | 520 |
| 1072900551 | 1072703551 | FG16OR16FR16 | 0,6/1KV 3x70 mm ² | 33 | 2,0 | 38 | 3530 | 540 |
| 1072900552 | 1072703552 | FG16OR16FR16 | 0,6/1KV 3½x70 mm ² | 36 | 2,0 | 42 | 4500 | 590 |
| 1072900553 | 1072703553 | FG16OR16FR16 | 0,6/1KV 3x95 mm ² | 36 | 2,0 | 39,9 | 4540 | 560 |
| 1072900554 | 1072703554 | FG16OR16FR16 | 0,6/1KV 3½x95 mm ² | 41 | 2,0 | 46 | 5800 | 650 |
| 1072900555 | 1072703555 | FG16OR16FR16 | 0,6/1KV 3x120 mm ² | 42 | 2,0 | 47 | 5500 | 670 |
| 1072900556 | 1072703556 | FG16OR16FR16 | 0,6/1KV 3½x120 mm ² | 44 | 2,0 | 50 | 7080 | 700 |
| 1072900557 | 1072703557 | FG16OR16FR16 | 0,6/1KV 5 G 50 mm ² | 35 | 2,0 | 40 | 3500 | 560 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Control and power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Instrumentation Cable - 108

CPR ECA

CU, PVC INSULATED, INDIVIDUAL AND OVERALL SCREEN, PVC BEDDING, SWA, PVC OUTER SHEATH

Technical Specifications n° 108/23 of 10/11/2023 Rev. 0

Type: FR2XOHRFR 450/750V - FR2XHOHRFR 450/750V
FR2XOHRAR 450/750V - FR2XHOHRAR 450/750V

Conductor: Flexible plain copper conductor according to IEC60228 cl.5 size
Insulation: PVC extruded compound R2 type extruded Thickness: 0,6mm
Temperature range -25 + 80° C
Temperature laying -5 + 70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,60 ± 0,02 mm |
| | |

- Laying up:** Twisted to pair, color Blue - Black numbered, triad Blue – Brown – Black (or to be agreed)
- Pair/Triad screen:** Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminum/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm, over the screen will be placed a further Mylar tape.
- Overall screen:** Applied over total assembly will be wrapped with polyester tape and shielded with Aluminum/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.
- Bedding:** PVC, Polyvinylchloride Low Smoke and Fume extruded compound
Thickness: 1,0mm
- Armour:** SWA, Galvanized steel round wires or SWB Galvanized steel bride wires
- Outer sheath:** PVC, Polyvinylchloride Low Smoke and Fume extruded compound
Colour: Blu/Black/Grey (or to be agreed)
- Marking:** On the outhere sheath " manufacturer's name year & description cable " with ink-jet printer.
- Performance:**
- Conductor resistance 26 ohm/Km (+5% for multipair)
 - Test voltage core to core 3 kv
 - Flame retardant according to IEC60332-3-24, CEI20-22/3
 - Low smoke and fume as per IEC60754-2, CEI20-37
 - HCL emission $\leq 22\%$
 - Hydrocarbon UV resistant
 - Inductance $\leq 0,90 \text{ mH/Km}$
 - Capacitance $\leq 0,25 \text{ microF/Km}$

Technical Specifications n° 108-1/23 - Overall screen SWB

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | SHEATH THICKNESS | EXT. DIAM MM | W. KG/KM | ARMOUR DIAM. | BENDING RADIUS |
|-------------------------|------------------------|-----------------------------|------------------|--------------|----------|--------------|----------------|
| 1081900501 | 1081501501 | FR2XOHRAR 450/750V 1x2x0,75 | 1,2 | 10 | 170 | 0,30 | 151 |
| 1081900502 | 1081501502 | FR2XOHRAR 450/750V 1x3x0,75 | 1,2 | 10,3 | 200 | 0,30 | 157 |
| 1081900503 | 1081501503 | FR2XOHRAR 450/750V 2x2x0,75 | 1,4 | 13,8 | 280 | 0,90 | 210 |
| 1081900504 | 1081501504 | FR2XOHRAR 450/750V 4x2x0,75 | 1,6 | 15,6 | 400 | 0,90 | 238 |
| 1081900505 | 1081501505 | FR2XOHRAR 450/750V 6x2x0,75 | 1,8 | 18,2 | 530 | 0,90 | 277 |

Weight and diameter are theoretical +/- 10%

Technical Specifications n° 108-2/23 - Individual & Overall screen SWB

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | SHEATH THICKNESS | EXT. DIAM MM | W. KG/KM | ARMOUR DIAM. | BENDING RADIUS |
|-------------------------|------------------------|------------------------------|------------------|--------------|----------|--------------|----------------|
| 1082900501 | 1082501501 | FR2XOHRAR 450/750V 1x2x0,75 | 1,2 | 10 | 170 | 0,30 | 151 |
| 1082900502 | 1082501502 | FR2XOHRAR 450/750V 1x3x0,75 | 1,2 | 10,3 | 200 | 0,30 | 157 |
| 1082900503 | 1082501503 | FR2XHOHRAR 450/750V 2x2x0,75 | 1,4 | 14,5 | 290 | 0,90 | 210 |
| 1082900504 | 1082501504 | FR2XHOHRAR 450/750V 4x2x0,75 | 1,6 | 16,5 | 410 | 0,90 | 238 |
| 1082900505 | 1082501505 | FR2XHOHRAR 450/750V 6x2x0,75 | 1,8 | 19,2 | 540 | 0,90 | 277 |

Weight and diameter are theoretical +/- 10%

Technical Specifications n° 108-3/23 - Overall screen SWA

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | SHEATH THICKNESS | EXT. DIAM MM | W. KG/KM | EXT. DIAM M MM | BENDING RADIUS |
|-------------------------|------------------------|-----------------------------|------------------|--------------|----------|----------------|----------------|
| 1083900501 | 1083501501 | FR2XOHRFR 450/750V 1x2x0,75 | 1,2 | 10,3 | 170 | 0,30 | 151 |
| 1083900502 | 1083501502 | FR2XOHRFR 450/750V 1x3x0,75 | 1,2 | 10,6 | 200 | 0,30 | 157 |
| 1083900503 | 1083501503 | FR2XOHRFR 450/750V 2x2x0,75 | 1,4 | 14,3 | 290 | 0,90 | 210 |
| 1083900504 | 1083501504 | FR2XOHRFR 450/750V 4x2x0,75 | 1,6 | 16,2 | 410 | 0,90 | 238 |
| 1083900505 | 1083501505 | FR2XOHRFR 450/750V 6x2x0,75 | 1,8 | 18,8 | 540 | 0,90 | 277 |

Weight and diameter are theoretical +/- 10%

Technical Specifications n° 108-4/23 - Individual & Overall screen SWA

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | SHEATH THICKNESS | EXT. DIAM MM | W. KG/KM | ARMOUR DIAM. | BENDING RADIUS |
|-------------------------|------------------------|------------------------------|------------------|--------------|----------|--------------|----------------|
| 1084900501 | 1084501501 | FR2XOHRFR 450/750V 1x2x0,75 | 1,2 | 10,3 | 170 | 0,30 | 151 |
| 1084900502 | 1084501502 | FR2XOHRFR 450/750V 1x3x0,75 | 1,2 | 10,6 | 200 | 0,30 | 157 |
| 1084900503 | 1084501503 | FR2XHOHRFR 450/750V 2x2x0,75 | 1,4 | 15 | 300 | 0,90 | 210 |
| 1084900504 | 1084501504 | FR2XHOHRFR 450/750V 4x2x0,75 | 1,6 | 17 | 420 | 0,90 | 238 |
| 1084900505 | 1084501505 | FR2XHOHRFR 450/750V 6x2x0,75 | 1,8 | 19,8 | 560 | 0,90 | 277 |

Weight and diameter are theoretical +/- 10%

Fire resistant Cable - 110

CPR EU 305/2011

**F Conductor, FR-HEPR G18 INSULATION, M16 OUTER SHEATH.
EN50200 PH 120, IEC 60502-1, IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 110/23 of 10/11/2023 Rev. 0

Type: FTG180M16 0,6/1KV

Conductor: Flexible plain or tinned copper conductor according to IEC60228 cl.5

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|---------------|
| 1,5 mm ² | 1,0 ± 0,02 mm |
| 2,5 mm ² | 1,0 ± 0,02 mm |
| 4,0 mm ² | 1,0 ± 0,02 mm |
| 6,0 mm ² | 1,0 ± 0,02 mm |
| 10 mm ² | 1,0 ± 0,02 mm |
| 16 mm ² | 1,0 ± 0,02 mm |

Laying up: Twisted to cores, UNEL 00722 color (or to be agreed)

Outer sheath: M16 LSZH extruded compound

Marking: On the outer sheath "Sensitherm – FTG180M16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120
WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emission IEC 61034 ½
- Fire resistant EN50200 PH120
- Hydrocarbon and UV resistant
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval, **B2ca s1a, d1, a1**

| CODE OUTER SHEATH RED | CODE OUTER SHEATH BLUE | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-----------------------|------------------------|--|---------------------------|--------------------|--------------|-------------------|
| 110300001 | 110501501 | FTG180M16 0,6/1KV 2x1,5 mm ² | 1,8 | 10,4 | 160 | 150 |
| 110300002 | 110501502 | FTG180M16 0,6/1KV 2x2,5 mm ² | 1,8 | 12 | 180 | 162 |
| 110300003 | 110501503 | FTG180M16 0,6/1KV 2x4 mm ² | 1,8 | 13,0 | 240 | 182 |
| 110300004 | 110501504 | FTG180M16 0,6/1KV 2x6 mm ² | 1,8 | 14 | 300 | 202 |
| 110300005 | 110501505 | FTG180M16 0,6/1KV 2x10 mm ² | 2,0 | 16,2 | 420 | 238 |
| 110300006 | 110501506 | FTG180M16 0,6/1KV 2x16 mm ² | 2,0 | 17,5 | 580 | 280 |
| 110300007 | 110501507 | FTG180M16 0,6/1KV 3x1,5 mm ² | 1,8 | 11,6 | 200 | 162 |
| 110300008 | 110501508 | FTG180M16 0,6/1KV 3x2,5 mm ² | 1,8 | 13 | 240 | 176 |
| 110300009 | 110501509 | FTG180M16 0,6/1KV 3x4 mm ² | 1,8 | 13,6 | 310 | 190 |
| 110300010 | 110501510 | FTG180M16 0,6/1KV 3x6 mm ² | 1,8 | 15,2 | 390 | 213 |
| 110300011 | 110501511 | FTG180M16 0,6/1KV 3x10 mm ² | 2,0 | 17,7 | 550 | 248 |
| 110300012 | 110501512 | FTG180M16 0,6/1KV 3x16 mm ² | 2,0 | 20,2 | 780 | 294 |
| 110300013 | 110501513 | FTG180M16 0,6/1KV 4x1,5 mm ² | 1,8 | 12,5 | 230 | 175 |
| 110300014 | 110501514 | FTG180M16 0,6/1KV 4x2,5 mm ² | 1,8 | 13,6 | 300 | 190 |
| 110300015 | 110501515 | FTG180M16 0,6/1KV 4x4 mm ² | 1,8 | 14,8 | 380 | 207 |
| 110300016 | 110501516 | FTG180M16 0,6/1KV 4x6 mm ² | 1,8 | 16,5 | 490 | 231 |
| 110300017 | 110501517 | FTG180M16 0,6/1KV 4x10 mm ² | 2,0 | 19,5 | 700 | 273 |
| 110300018 | 110501518 | FTG180M16 0,6/1KV 4x16 mm ² | 2,0 | 23 | 990 | 322 |
| 110300019 | 110501519 | FTG180M16 0,6/1KV 5x1,5 mm ² | 1,8 | 13,5 | 280 | 189 |
| 110300020 | 110501520 | FTG180M16 0,6/1KV 5x2,5 mm ² | 1,8 | 14,8 | 350 | 208 |
| 110300021 | 110501521 | FTG180M16 0,6/1KV 5x4 mm ² | 1,8 | 16,2 | 450 | 227 |
| 110300022 | 110501522 | FTG180M16 0,6/1KV 5x6 mm ² | 2,0 | 18,2 | 580 | 255 |
| 110300023 | 110501523 | FTG180M16 0,6/1KV 5x10 mm ² | 2,0 | 21,4 | 840 | 300 |
| 110300024 | 110501524 | FTG180M16 0,6/1KV 5x16 mm ² | 2,0 | 25 | 1200 | 350 |
| 110300025 | 110501525 | FTG180M16 0,6/1KV 7x1,5 mm ² | 1,8 | 14,6 | 340 | 204 |
| 110300026 | 110501526 | FTG180M16 0,6/1KV 10x1,5 mm ² | 1,8 | 18,2 | 470 | 255 |
| 110300027 | 110501527 | FTG180M16 0,6/1KV 12x1,5 mm ² | 1,8 | 18,8 | 530 | 263 |
| 110300028 | 110501528 | FTG180M16 0,6/1KV 14x1,5 mm ² | 2,0 | 19,8 | 600 | 277 |
| 110300029 | 110501529 | FTG180M16 0,6/1KV 19x1,5 mm ² | 2,0 | 21,8 | 760 | 305 |
| 110300030 | 110501530 | FTG180M16 0,6/1KV 24x1,5 mm ² | 2,0 | 25,4 | 950 | 356 |
| 110300031 | 110501531 | FTG180M16 0,6/1KV 27x1,5 mm ² | 2,0 | 26 | 1040 | 364 |
| 110300032 | 110501532 | FTG180M16 0,6/1KV 7x2,5 mm ² | 1,8 | 16 | 440 | 224 |

| | | | | | | | |
|-----------|-----------|-------------------|------------------------|-----|------|------|-----|
| 110300033 | 110501533 | FTG180M16 0,6/1KV | 10x2,5 mm ² | 1,8 | 20 | 610 | 280 |
| 110300034 | 110501534 | FTG180M16 0,6/1KV | 12x2,5 mm ² | 2,0 | 21 | 700 | 294 |
| 110300035 | 110501535 | FTG180M16 0,6/1KV | 14x2,5 mm ² | 2,0 | 21,8 | 790 | 305 |
| 110300036 | 110501536 | FTG180M16 0,6/1KV | 19x2,5 mm ² | 2,0 | 24 | 1020 | 336 |
| 110300037 | 110501537 | FTG180M16 0,6/1KV | 24x2,5 mm ² | 2,0 | 28 | 1260 | 392 |

Weight and diameter: Are theoretical + / - 10%

Power and Control Cable - 111

CPR EU 305/2011

**F Conductor, FR-HEPR G18 INSULATION, M16 OUTER SHEATH.
IEC 60502-1, IEC 60332.3 – HALOGEN FREE – CPR B2ca s1a d1 a1**

Technical Specifications n° 111/23 of 10/11/2023 Rev. 0

Type: FG180M16 0,6/1KV

Conductor: Flexible plain or tinned copper conductor according to IEC60228 cl.5

Insulation: FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|---------------|
| 1,5 mm ² | 1,0 ± 0,02 mm |
| 2,5 mm ² | 1,0 ± 0,02 mm |
| 4,0 mm ² | 1,0 ± 0,02 mm |
| 6,0 mm ² | 1,0 ± 0,02 mm |
| 10 mm ² | 1,0 ± 0,02 mm |
| 16 mm ² | 1,0 ± 0,02 mm |
| 25 mm ² | 1,0 ± 0,02 mm |

Laying up: Twisted to cores, UNEL 00722 color (or to be agreed)

Outer sheath: M16 LSZH extruded compound

Marking: On the outer sheath "Sensitherm – FG180M16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.)
B2ca s1a-d0-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emission IEC 61034 ½
- Hydrocarbon and UV resistant
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription and outdoor applications (excluding annex E)
- EN50575 tested for approval, **B2ca s1a, d1, a1.**

| CODE OUTER SHEATH BLACK | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|---|---------------------------|--------------------|--------------|-------------------|
| 111900501 | FG180M16 0,6/1KV 2x1,5 mm ² | 1,8 | 10,7 | 155,8 | 150 |
| 111900502 | FG180M16 0,6/1KV 2x2,5 mm ² | 1,8 | 12 | 173,6 | 162 |
| 111900503 | FG180M16 0,6/1KV 2x4 mm ² | 1,8 | 13,0 | 233 | 182 |
| 111900504 | FG180M16 0,6/1KV 2x6 mm ² | 1,8 | 14 | 291,6 | 202 |
| 111900505 | FG180M16 0,6/1KV 2x10 mm ² | 2,0 | 16,8 | 410,6 | 238 |
| 111900506 | FG180M16 0,6/1KV 2x16 mm ² | 2,0 | 18 | 568 | 280 |
| 111900507 | FG180M16 0,6/1KV 2x25 mm ² | 2,0 | 22,6 | 780 | 310 |
| 111900508 | FG180M16 0,6/1KV 3x1,5 mm ² | 1,8 | 11,6 | 193,7 | 162 |
| 111900509 | FG180M16 0,6/1KV 3x2,5 mm ² | 1,8 | 13 | 230,4 | 176 |
| 111900510 | FG180M16 0,6/1KV 3x4 mm ² | 1,8 | 13,6 | 299,5 | 190 |
| 111900511 | FG180M16 0,6/1KV 3x6 mm ² | 1,8 | 15,2 | 377,4 | 213 |
| 111900512 | FG180M16 0,6/1KV 3x10 mm ² | 2,0 | 17,7 | 535,9 | 248 |
| 111900513 | FG180M16 0,6/1KV 3x16 mm ² | 2,0 | 21 | 762 | 294 |
| 111900514 | FG180M16 0,6/1KV 4x1,5 mm ² | 1,8 | 12,5 | 221,6 | 175 |
| 111900515 | FG180M16 0,6/1KV 4x2,5 mm ² | 1,8 | 13,6 | 300 | 190 |
| 111900516 | FG180M16 0,6/1KV 4x4 mm ² | 1,8 | 14,8 | 380 | 207 |
| 111900517 | FG180M16 0,6/1KV 4x6 mm ² | 1,8 | 16,5 | 490 | 231 |
| 111900518 | FG180M16 0,6/1KV 4x10 mm ² | 2,0 | 19,5 | 700 | 273 |
| 111900519 | FG180M16 0,6/1KV 4x16 mm ² | 2,0 | 23 | 990 | 322 |
| 111900520 | FG180M16 0,6/1KV 5x1,5 mm ² | 1,8 | 13,5 | 280 | 189 |
| 111900521 | FG180M16 0,6/1KV 5x2,5 mm ² | 1,8 | 14,8 | 350 | 208 |
| 111900522 | FG180M16 0,6/1KV 5x4 mm ² | 1,8 | 16,2 | 450 | 227 |
| 111900523 | FG180M16 0,6/1KV 5x6 mm ² | 2,0 | 18,2 | 580 | 255 |
| 111900524 | FG180M16 0,6/1KV 5x10 mm ² | 2,0 | 21,4 | 840 | 300 |
| 111900525 | FG180M16 0,6/1KV 5x16 mm ² | 2,0 | 25 | 1200 | 350 |
| 111900526 | FG180M16 0,6/1KV 7x1,5 mm ² | 1,8 | 14,6 | 340 | 204 |
| 111900527 | FG180M16 0,6/1KV 10x1,5 mm ² | 1,8 | 18,2 | 470 | 255 |
| 111900528 | FG180M16 0,6/1KV 12x1,5 mm ² | 1,8 | 18,8 | 530 | 263 |
| 111900529 | FG180M16 0,6/1KV 14x1,5 mm ² | 2,0 | 19,8 | 600 | 277 |
| 111900530 | FG180M16 0,6/1KV 19x1,5 mm ² | 2,0 | 21,8 | 760 | 305 |
| 111900531 | FG180M16 0,6/1KV 24x1,5 mm ² | 2,0 | 25,5 | 950 | 356 |
| 111900532 | FG180M16 0,6/1KV 27x1,5 mm ² | 2,0 | 26 | 1040 | 364 |
| 111900533 | FG180M16 0,6/1KV 7x2,5 mm ² | 1,8 | 16 | 440 | 224 |
| 111900534 | FG180M16 0,6/1KV 10x2,5 mm ² | 1,8 | 20 | 610 | 280 |

| | | | | | | |
|-----------|------------------|------------------------|-----|------|--------|-----|
| 111900535 | FG180M16 0,6/1KV | 12x2,5 mm ² | 2,0 | 21 | 700 | 294 |
| 111900536 | FG180M16 0,6/1KV | 14x2,5 mm ² | 2,0 | 21,8 | 745,2 | 305 |
| 111900537 | FG180M16 0,6/1KV | 19x2,5 mm ² | 2,0 | 24 | 959,2 | 336 |
| 111900538 | FG180M16 0,6/1KV | 24x2,5 mm ² | 2,0 | 26,5 | 1183,2 | 392 |

Weight and diameter: Are theoretical + / - 10%

Fire Resistant Instrumentation Cable – 112-1

B2ca s1a-d1-a1

CPR EU 305/2011

EN50200 PH120

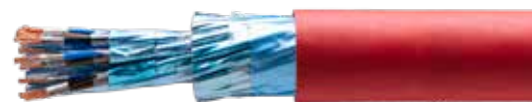
**Conductor, MGT, G18 INSULATION, OVERALL SCREEN, M16 OUTER SHEATH.
EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 112-1/23 10/11/2023 Rev. 0

Type: FTG18XOHM16 0,6/1 KV - FTG18OHM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4,0 mm ² | 0,70 ± 0,02 mm |
| 6,0 mm ² | 0,70 ± 0,02 mm |
| 10,0 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Outer sheath: M16 LSZH extruded compound
Colour: Red/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FTG18XOHM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120
WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Fire resistant EN50200 PH120
- Cable for intrinsically safe application
- Inductance $\leq 0,90\text{ mH/Km}$
- Capacitance $\leq 0,200\text{ }\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

| CODE OUTER SHEATH RED | CODE OUTER SHEATH BLACK | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-----------------------|-------------------------|--|---------------------------|--------------------|--------------|-------------------|
| 1121300001 | 1121900501 | FTG18OHM16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 10,5 | 150 | 168 |
| 1121300002 | 1121900502 | FTG18OHM16 0,6/1KV 1x2x2,5 mm ² | 1,8 | 10,8 | 180 | 172 |
| 1121300003 | 1121900503 | FTG18OHM16 0,6/1KV 1x2x4 mm ² | 1,8 | 12,2 | 230 | 195 |
| 1121300004 | 1121900504 | FTG18OHM16 0,6/1KV 1x2x6 mm ² | 2,0 | 14,6 | 320 | 234 |
| 1121300005 | 1121900505 | FTG18OHM16 0,6/1KV 1x2x10 mm ² | 2,0 | 16 | 440 | 256 |
| 1121300006 | 1121900506 | FTG18OHM16 0,6/1KV 1x3x1,5 mm ² | 1,8 | 10,8 | 180 | 172 |
| 1121300007 | 1121900507 | FTG18OHM16 0,6/1KV 1x3x2,5 mm ² | 1,8 | 11,8 | 230 | 188 |
| 1121300008 | 1121900508 | FTG18OHM16 0,6/1KV 1x3x4 mm ² | 1,8 | 13,8 | 320 | 221 |
| 1121300009 | 1121900509 | FTG18OHM16 0,6/1KV 1x3x6 mm ² | 2,0 | 15,5 | 410 | 248 |
| 1121300010 | 1121900510 | FTG18OHM16 0,6/1KV 1x3x10 mm ² | 2,0 | 19 | 590 | 304 |
| 1121300011 | 1121900511 | FTG18XOHM16 0,6/1KV 2x2x0,75 mm ² | 1,8 | 13,9 | 240 | 256 |
| 1121300012 | 1121900512 | FTG18XOHM16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 15,2 | 290 | 284 |
| 1121300013 | 1121900513 | FTG18XOHM16 0,6/1KV 2x2x2,5 mm ² | 1,8 | 16,9 | 340 | 344 |
| 1121300014 | 1121900514 | FTG18XOHM16 0,6/1KV 2x3x1,5 mm ² | 1,8 | 18,6 | 400 | 313 |
| 1121300015 | 1121900515 | FTG18XOHM16 0,6/1KV 2x3x2,5 mm ² | 2,0 | 20,7 | 490 | 348 |
| 1121300016 | 1121900516 | FTG18XOHM16 0,6/1KV 6x2x1 mm ² | 1,8 | 20,4 | 520 | 344 |
| 1121300017 | 1121900517 | FTG18XOHM16 0,6/1KV 6x2x1,5 mm ² | 2,0 | 21,4 | 620 | 360 |
| 1121300018 | 1121900518 | FTG18XOHM16 0,6/1KV 6x2x2,5 mm ² | 2,0 | 24,1 | 820 | 406 |
| 1121300019 | 1121900519 | FTG18XOHM16 0,6/1KV 6x3x1 mm ² | 2,0 | 24,7 | 740 | 416 |
| 1121300020 | 1121900520 | FTG18XOHM16 0,6/1KV 6x3x1,5 mm ² | 2,0 | 26,2 | 860 | 440 |
| 1121300021 | 1121900521 | FTG18XOHM16 0,6/1KV 6x3x2,5 mm ² | 2,0 | 28,9 | 1110 | 486 |
| 1121300022 | 1121900522 | FTG18XOHM16 0,6/1KV 12x2x1 mm ² | 2,0 | 26,4 | 960 | 448 |
| 1121300023 | 1121900523 | FTG18XOHM16 0,6/1KV 12x2x1,5 mm ² | 2,0 | 27,4 | 1120 | 486 |
| 1121300024 | 1121900524 | FTG18XOHM16 0,6/1KV 12x2x2,5 mm ² | 2,0 | 32 | 1430 | 540 |
| 1121300025 | 1121900525 | FTG18XOHM16 0,6/1KV 12x3x1,5 mm ² | 2,0 | 36 | 1530 | 608 |
| 1121300026 | 1121900526 | FTG18OHM16 0,6/1KV 1x4x1,5 mm ² | 1,8 | 11,6 | 220 | 180 |
| 1121300027 | 1121900527 | FTG18OHM16 0,6/1KV 1x4x2,5 mm ² | 1,8 | 12,8 | 280 | 200 |
| 1121300028 | 1121900528 | FTG18OHM16 0,6/1KV 1x4x4 mm ² | 1,8 | 14,2 | 360 | 230 |
| 1121300029 | 1121900529 | FTG18OHM16 0,6/1KV 1x4x6 mm ² | 2,0 | 16,2 | 470 | 260 |
| 1121300030 | 1121900530 | FTG18XOHM16 0,6/1KV 2x2x1 mm ² | 1,8 | 14 | 260 | 240 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Fire Resistant Instrumentation Cable – 112-2

B2ca s1a-d1-a1 CPR EU 305/2011 EN50200 PH120

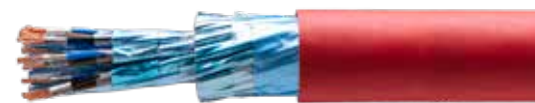
Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.
EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 112-2/23 10/11/2023 Rev. 0

Type: FTG18XHOHM16 0,6/1KV - FTG18OHM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4,0 mm ² | 0,70 ± 0,02 mm |
| 6,0 mm ² | 0,70 ± 0,02 mm |
| 10,0 mm ² | 0,70 ± 0,02 mm |

- Laying up:** Twisted to pair, Blue - Black numbered (or to be agreed)
- Pair screen:** Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.
- (if necessary)**
- Overall screen:** Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.
- Outer sheath:** M16 LSZH extruded compound
Colour: Red/Black (or to be agreed)
- Marking:** On the outer sheath "Sensitherm – FTG18XHOHM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120 WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"
- Performance:**
- Test voltage core to core 3,5 KV
 - Flame retardant according to IEC 60332-3-24, CEI 20-22/3
 - Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
 - Low smoke density emiss. IEC 61034 1/2
 - Hydrocarbon and UV resistant
 - Fire resistant EN50200 PH120
 - Cable for intrinsically safe application
 - Inductance $\leq 0,90 \text{ mH/Km}$
 - Capacitance $= 0,200 \text{ }\mu\text{F/Km}$
 - This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

| CODE OUTER SHEATH RED | CODE OUTER SHEATH BLACK | ITEM | | | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-----------------------|-------------------------|--------------|---------|--------------------------|---------------------------|--------------------|--------------|-------------------|
| 1122300001 | 1122900501 | FTG18OHM16 | 0,6/1KV | 1x2x1,5 mm ² | 1,8 | 10,5 | 150 | 168 |
| 1122300002 | 1122900502 | FTG18OHM16 | 0,6/1KV | 1x2x2,5 mm ² | 1,8 | 10,8 | 180 | 172 |
| 1122300003 | 1122900503 | FTG18OHM16 | 0,6/1KV | 1x2x4 mm ² | 1,8 | 12,2 | 230 | 195 |
| 1122300004 | 1122900504 | FTG18OHM16 | 0,6/1KV | 1x2x6 mm ² | 2,0 | 14,6 | 320 | 234 |
| 1122300005 | 1122900505 | FTG18OHM16 | 0,6/1KV | 1x2x10 mm ² | 2,0 | 16 | 440 | 256 |
| 1122300006 | 1122900506 | FTG18OHM16 | 0,6/1KV | 1x3x1,5 mm ² | 1,8 | 10,8 | 180 | 172 |
| 1122300007 | 1122900507 | FTG18OHM16 | 0,6/1KV | 1x3x2,5 mm ² | 1,8 | 11,8 | 230 | 188 |
| 1122300008 | 1122900508 | FTG18OHM16 | 0,6/1KV | 1x3x4 mm ² | 1,8 | 13,8 | 320 | 221 |
| 1122300009 | 1122900509 | FTG18OHM16 | 0,6/1KV | 1x3x6 mm ² | 2,0 | 15,5 | 410 | 248 |
| 1122300010 | 1122900510 | FTG18OHM16 | 0,6/1KV | 1x3x10 mm ² | 2,0 | 19 | 590 | 304 |
| 1122300011 | 1122900511 | FTG18XHOHM16 | 0,6/1KV | 2x2x0,75 mm ² | 1,8 | 14,6 | 250 | 256 |
| 1122300012 | 1122900512 | FTG18XHOHM16 | 0,6/1KV | 2x2x1,5 mm ² | 1,8 | 16 | 310 | 284 |
| 1122300013 | 1122900513 | FTG18XHOHM16 | 0,6/1KV | 2x2x2,5 mm ² | 1,8 | 17,8 | 360 | 344 |
| 1122300014 | 1122900514 | FTG18XHOHM16 | 0,6/1KV | 2x3x1,5 mm ² | 1,8 | 19,6 | 420 | 313 |
| 1122300015 | 1122900515 | FTG18XHOHM16 | 0,6/1KV | 2x3x2,5 mm ² | 2,0 | 21,8 | 520 | 348 |
| 1122300016 | 1122900516 | FTG18XHOHM16 | 0,6/1KV | 6x2x1 mm ² | 1,8 | 21,5 | 550 | 344 |
| 1122300017 | 1122900517 | FTG18XHOHM16 | 0,6/1KV | 6x2x1,5 mm ² | 2,0 | 22,5 | 650 | 360 |
| 1122300018 | 1122900518 | FTG18XHOHM16 | 0,6/1KV | 6x2x2,5 mm ² | 2,0 | 25,4 | 860 | 406 |
| 1122300019 | 1122900519 | FTG18XHOHM16 | 0,6/1KV | 6x3x1 mm ² | 2,0 | 26 | 780 | 416 |
| 1122300020 | 1122900520 | FTG18XHOHM16 | 0,6/1KV | 6x3x1,5 mm ² | 2,0 | 27,6 | 910 | 440 |
| 1122300021 | 1122900521 | FTG18XHOHM16 | 0,6/1KV | 6x3x2,5 mm ² | 2,0 | 30,4 | 1170 | 486 |
| 1122300022 | 1122900522 | FTG18XHOHM16 | 0,6/1KV | 12x2x1 mm ² | 2,0 | 27,8 | 1010 | 448 |
| 1122300023 | 1122900523 | FTG18XHOHM16 | 0,6/1KV | 12x2x1,5 mm ² | 2,0 | 28,8 | 1180 | 486 |
| 1122300024 | 1122900524 | FTG18XHOHM16 | 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 33,7 | 1510 | 540 |
| 1122300025 | 1122900525 | FTG18XHOHM16 | 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 38 | 1610 | 608 |
| 1122300026 | 1122900526 | FTG18OHM16 | 0,6/1KV | 1x4x1,5 mm ² | 1,8 | 11,6 | 220 | 180 |
| 1122300027 | 1122900527 | FTG18OHM16 | 0,6/1KV | 1x4x2,5 mm ² | 1,8 | 12,8 | 280 | 200 |
| 1122300028 | 1122900528 | FTG18OHM16 | 0,6/1KV | 1x4x4 mm ² | 1,8 | 14,2 | 360 | 230 |
| 1122300029 | 1122900529 | FTG18OHM16 | 0,6/1KV | 1x4x6 mm ² | 2,0 | 16,2 | 470 | 260 |
| 1122300030 | 1122900530 | FTG18XHOHM16 | 0,6/1KV | 2x2x1 mm ² | 1,8 | 14,8 | 270 | 240 |

Weight and diameter: Are theoretical + / - 10%

Fire Resistant Instrumentation Cable – 113-1

B2ca s1a-d1-a1 CPR EU 305/2011 EN50200 PH120

Conductor, MGT, G18 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH.

EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-1/23 10/11/2023 Rev. 0

Type: FTG18XOHM16AM16 0,6/1Kv - FTG18OHM16AM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4,0 mm ² | 0,70 ± 0,02 mm |
| 6,0 mm ² | 0,70 ± 0,02 mm |
| 10,0 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to cores, Blue - Black numbered, UNEL (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath M16 LSZH extruded compound

Armour Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FTG18XOHM16AM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120 WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Fire resistant EN50200 PH120

- Cable for intrinsically safe application
- Inductance $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH RED | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|-----------------------|--|---------------------------|--------------------|--------------|-------------------|
| 1131900501 | 1131300001 | FTG18OHM16AM16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 13,8 | 320 | 220 |
| 1131900502 | 1131300002 | FTG18OHM16AM16 0,6/1KV 1x2x2,5 mm ² | 1,8 | 14 | 370 | 230 |
| 1131900503 | 1131300003 | FTG18OHM16AM16 0,6/1KV 1x2x4 mm ² | 1,8 | 15 | 430 | 240 |
| 1131900504 | 1131300004 | FTG18OHM16AM16 0,6/1KV 1x2x6 mm ² | 2,0 | 17,5 | 520 | 280 |
| 1131900505 | 1131300005 | FTG18OHM16AM16 0,6/1KV 1x3x1,5 mm ² | 1,8 | 14,4 | 350 | 230 |
| 1131900506 | 1131300006 | FTG18OHM16AM16 0,6/1KV 1x3x2,5 mm ² | 1,8 | 15,7 | 430 | 250 |
| 1131900507 | 1131300007 | FTG18OHM16AM16 0,6/1KV 1x3x4 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1131900508 | 1131300008 | FTG18OHM16AM16 0,6/1KV 1x3x6 mm ² | 2,0 | 18,4 | 640 | 300 |
| 1131900509 | 1131300009 | FTG18OHM16AM16 0,6/1KV 1x3x10 mm ² | 2,0 | 21,3 | 860 | 350 |
| 1131900510 | 1131300010 | FTG18OHM16AM16 0,6/1KV 1x4x1,5 mm ² | 1,8 | 15 | 410 | 240 |
| 1131900511 | 1131300011 | FTG18OHM16AM16 0,6/1KV 1x4x2,5 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1131900512 | 1131300012 | FTG18OHM16AM16 0,6/1KV 1x4x4 mm ² | 2,0 | 17,5 | 620 | 280 |
| 1131900513 | 1131300013 | FTG18OHM16AM16 0,6/1KV 1x4x6 mm ² | 2,0 | 19,4 | 770 | 320 |
| 1131900514 | 1131300014 | FTG18OHM16AM16 0,6/1KV 1x5x2,5 mm ² | 2,0 | 17,5 | 580 | 280 |
| 1131900515 | 1131300015 | FTG18OHM16AM16 0,6/1KV 1x5x4 mm ² | 2,0 | 19 | 720 | 320 |
| 1131900516 | 1131300016 | FTG18OHM16AM16 0,6/1KV 6x1 mm ² | 1,8 | 16,5 | 460 | 270 |
| 1131900517 | 1131300017 | FTG18XOHM16AM16 0,6/1KV 2x2x0,75 mm ² | 1,8 | 17 | 440 | 290 |
| 1131900518 | 1131300018 | FTG18XOHM16AM16 0,6/1KV 2x2x1 mm ² | 1,8 | 17,5 | 460 | 300 |
| 1131900519 | 1131300019 | FTG18XOHM16AM16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 18,8 | 520 | 320 |
| 1131900520 | 1131300020 | FTG18XOHM16AM16 0,6/1KV 2x2x2,5 mm ² | 1,8 | 20,2 | 610 | 350 |
| 1131900521 | 1131300021 | FTG18XOHM16AM16 0,6/1KV 2x3x0,75 mm ² | 2,0 | 19,3 | 520 | 330 |
| 1131900522 | 1131300022 | FTG18XOHM16AM16 0,6/1KV 2x3x1,5 mm ² | 1,8 | 21,5 | 660 | 370 |
| 1131900523 | 1131300023 | FTG18XOHM16AM16 0,6/1KV 2x3x2,5 mm ² | 2,0 | 23,4 | 790 | 400 |
| 1131900524 | 1131300024 | FTG18XOHM16AM16 0,6/1KV 6x2x1 mm ² | 1,8 | 23,7 | 870 | 400 |
| 1131900525 | 1131300025 | FTG18XOHM16AM16 0,6/1KV 6x2x1,5 mm ² | 2,0 | 24,8 | 980 | 430 |
| 1131900526 | 1131300026 | FTG18XOHM16AM16 0,6/1KV 6x2x2,5 mm ² | 2,0 | 27 | 1200 | 464 |
| 1131900527 | 1131300027 | FTG18XOHM16AM16 0,6/1KV 6x3x1 mm ² | 2,0 | 37,6 | 1120 | 480 |
| 1131900528 | 1131300028 | FTG18XOHM16AM16 0,6/1KV 6x3x1,5 mm ² | 2,0 | 29 | 1280 | 490 |
| 1131900529 | 1131300029 | FTG18XOHM16AM16 0,6/1KV 6x3x2,5 mm ² | 2,0 | 31,6 | 1580 | 540 |
| 1131900530 | 1131300030 | FTG18XOHM16AM16 0,6/1KV 12x2x1 mm ² | 2,0 | 28,5 | 1400 | 490 |

| | | | | | | | |
|------------|------------|-------------------------|--------------------------|-----|------|------|-----|
| 1131900531 | 1131300031 | FTG18XOHM16AM16 0,6/1KV | 12x2x1,5 mm ² | 2,0 | 31 | 1600 | 520 |
| 1131900532 | 1131300032 | FTG18XOHM16AM16 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 34,5 | 2000 | 590 |
| 1131900533 | 1131300033 | FTG18XOHM16AM16 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 37,3 | 2150 | 640 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Fire Resistant Instrumentation Cable – 113-2

B2ca s1a-d1-a1 CPR EU 305/2011 EN50200 PH120

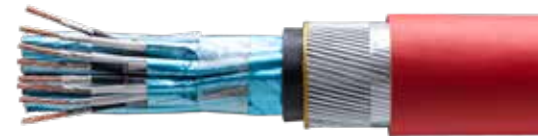
Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH.
EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-2/23 10/11/2023 Rev. 0

Type: FTG18XHOHM16AM16 0,6/1Kv - FTG18OHM16AM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4,0 mm ² | 0,70 ± 0,02 mm |
| 6,0 mm ² | 0,70 ± 0,02 mm |
| 10,0 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to cores, Blue - Black numbered, UNEL (or to be agreed)

Pair screen: (if necessary) Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath M16 LSZH extruded compound

Armour Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
 Colour: Red/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FTG18XHOHM16AM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120 WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"

Performance: - Test voltage core to core 3,5 KV
 - Flame retardant according to IEC 60332-3-24, CEI 20-22/3

- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emission IEC 61034 1/2
- Hydrocarbon and UV resistant
- Fire resistant EN50200 PH120
- Cable for intrinsically safe application
- Inductance $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH RED | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|-----------------------|---|---------------------------|--------------------|--------------|-------------------|
| 1132900501 | 1132300001 | FTG18OHM16AM16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 13,8 | 320 | 220 |
| 1132900502 | 1132300002 | FTG18OHM16AM16 0,6/1KV 1x2x2,5 mm ² | 1,8 | 14 | 370 | 230 |
| 1132900503 | 1132300003 | FTG18OHM16AM16 0,6/1KV 1x2x4 mm ² | 1,8 | 15 | 430 | 240 |
| 1132900504 | 1132300004 | FTG18OHM16AM16 0,6/1KV 1x2x6 mm ² | 2,0 | 17,5 | 520 | 280 |
| 1132900505 | 1132300005 | FTG18OHM16AM16 0,6/1KV 1x3x1,5 mm ² | 1,8 | 14,4 | 350 | 230 |
| 1132900506 | 1132300006 | FTG18OHM16AM16 0,6/1KV 1x3x2,5 mm ² | 1,8 | 15,7 | 430 | 250 |
| 1132900507 | 1132300007 | FTG18OHM16AM16 0,6/1KV 1x3x4 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1132900508 | 1132300008 | FTG18OHM16AM16 0,6/1KV 1x3x6 mm ² | 2,0 | 18,4 | 640 | 300 |
| 1132900509 | 1132300009 | FTG18OHM16AM16 0,6/1KV 1x3x10 mm ² | 2,0 | 21,3 | 860 | 350 |
| 1132900510 | 1132300010 | FTG18OHM16AM16 0,6/1KV 1x4x1,5 mm ² | 1,8 | 15 | 410 | 240 |
| 1132900511 | 1132300011 | FTG18OHM16AM16 0,6/1KV 1x4x2,5 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1132900512 | 1132300012 | FTG18OHM16AM16 0,6/1KV 1x4x4 mm ² | 2,0 | 17,5 | 620 | 280 |
| 1132900513 | 1132300013 | FTG18OHM16AM16 0,6/1KV 1x4x6 mm ² | 2,0 | 19,4 | 770 | 320 |
| 1132900514 | 1132300014 | FTG18OHM16AM16 0,6/1KV 1x5x2,5 mm ² | 2,0 | 17,5 | 580 | 280 |
| 1132900515 | 1132300015 | FTG18OHM16AM16 0,6/1KV 1x5x4 mm ² | 2,0 | 19 | 720 | 320 |
| 1132900516 | 1132300016 | FTG18OHM16AM16 0,6/1KV 6x1 mm ² | 1,8 | 16,5 | 460 | 270 |
| 1132900517 | 1132300017 | FTG18XHOHM16AM16 0,6/1KV 2x2x0,75 mm ² | 1,8 | 17,8 | 460 | 290 |
| 1132900518 | 1132300018 | FTG18XHOHM16AM16 0,6/1KV 2x2x1 mm ² | 1,8 | 18,4 | 480 | 300 |
| 1132900519 | 1132300019 | FTG18XHOHM16AM16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 19,8 | 540 | 320 |
| 1132900520 | 1132300020 | FTG18XHOHM16AM16 0,6/1KV 2x2x2,5 mm ² | 1,8 | 21,3 | 640 | 350 |
| 1132900521 | 1132300021 | FTG18XHOHM16AM16 0,6/1KV 2x3x0,75 mm ² | 2,0 | 20,4 | 550 | 330 |
| 1132900522 | 1132300022 | FTG18XHOHM16AM16 0,6/1KV 2x3x1,5 mm ² | 1,8 | 22,7 | 700 | 370 |
| 1132900523 | 1132300023 | FTG18XHOHM16AM16 0,6/1KV 2x3x2,5 mm ² | 2,0 | 24,6 | 830 | 400 |
| 1132900524 | 1132300024 | FTG18XHOHM16AM16 0,6/1KV 6x2x1 mm ² | 1,8 | 25 | 920 | 400 |
| 1132900525 | 1132300025 | FTG18XHOHM16AM16 0,6/1KV 6x2x1,5 mm ² | 2,0 | 26,2 | 1030 | 430 |
| 1132900526 | 1132300026 | FTG18XHOHM16AM16 0,6/1KV 6x2x2,5 mm ² | 2,0 | 28,6 | 1270 | 464 |
| 1132900527 | 1132300027 | FTG18XHOHM16AM16 0,6/1KV 6x3x1 mm ² | 2,0 | 29 | 1180 | 480 |
| 1132900528 | 1132300028 | FTG18XHOHM16AM16 0,6/1KV 6x3x1,5 mm ² | 2,0 | 30,6 | 1350 | 490 |
| 1132900529 | 1132300029 | FTG18XHOHM16AM16 0,6/1KV 6x3x2,5 mm ² | 2,0 | 33,4 | 1670 | 540 |

| | | | | | | | |
|------------|------------|--------------------------|--------------------------|-----|------|------|-----|
| 1132900530 | 1132300030 | FTG18XHOHM16AM16 0,6/1KV | 12x2x1 mm ² | 2,0 | 30 | 1480 | 490 |
| 1132900531 | 1132300031 | FTG18XHOHM16AM16 0,6/1KV | 12x2x1,5 mm ² | 2,0 | 32,5 | 1700 | 520 |
| 1132900532 | 1132300032 | FTG18XHOHM16AM16 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 36,5 | 2140 | 590 |
| 1132900533 | 1132300033 | FTG18XHOHM16AM16 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 38,8 | 2270 | 640 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Fire Resistant Instrumentation Cable – 113-3

B2ca s1a-d1-a1 CPR EU 305/2011 EN50200 PH120

Conductor, MGT, G18 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH.

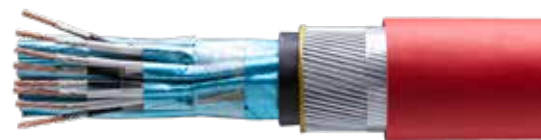
EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-3/23 10/11/2023 Rev. 0

Type: FTG18XOHM16FM16 0,6/1Kv - FTG18OHM16FM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4,0 mm ² | 0,70 ± 0,02 mm |
| 6,0 mm ² | 0,70 ± 0,02 mm |
| 10,0 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to cores, Blue - Black numbered, UNEL (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath M16 LSZH extruded compound

Armour Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

Outer sheath: M16 LSZH extruded compound
Colour: Blue/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FTG18XOHM16FM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120 WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"

Performance: - Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Fire resistant EN50200 PH120

- Cable for intrinsically safe application
- Inductance $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH RED | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|-----------------------|--|---------------------------|--------------------|--------------|-------------------|
| 1133900501 | 1133300001 | FTG18OHM16FM16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 13,8 | 320 | 220 |
| 1133900502 | 1133300002 | FTG18OHM16FM16 0,6/1KV 1x2x2,5 mm ² | 1,8 | 14 | 370 | 230 |
| 1133900503 | 1133300003 | FTG18OHM16FM16 0,6/1KV 1x2x4 mm ² | 1,8 | 15 | 430 | 240 |
| 1133900504 | 1133300004 | FTG18OHM16FM16 0,6/1KV 1x2x6 mm ² | 2,0 | 17,5 | 520 | 280 |
| 1133900505 | 1133300005 | FTG18OHM16FM16 0,6/1KV 1x3x1,5 mm ² | 1,8 | 14,4 | 350 | 230 |
| 1133900506 | 1133300006 | FTG18OHM16FM16 0,6/1KV 1x3x2,5 mm ² | 1,8 | 15,7 | 430 | 250 |
| 1133900507 | 1133300007 | FTG18OHM16FM16 0,6/1KV 1x3x4 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1133900508 | 1133300008 | FTG18OHM16FM16 0,6/1KV 1x3x6 mm ² | 2,0 | 18,4 | 640 | 300 |
| 1133900509 | 1133300009 | FTG18OHM16FM16 0,6/1KV 1x3x10 mm ² | 2,0 | 21,3 | 860 | 350 |
| 1133900510 | 1133300010 | FTG18OHM16FM16 0,6/1KV 1x4x1,5 mm ² | 1,8 | 15 | 410 | 240 |
| 1133900511 | 1133300011 | FTG18OHM16FM16 0,6/1KV 1x4x2,5 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1133900512 | 1133300012 | FTG18OHM16FM16 0,6/1KV 1x4x4 mm ² | 2,0 | 17,5 | 620 | 280 |
| 1133900513 | 1133300013 | FTG18OHM16FM16 0,6/1KV 1x4x6 mm ² | 2,0 | 19,4 | 770 | 320 |
| 1133900514 | 1133300014 | FTG18OHM16FM16 0,6/1KV 1x5x2,5 mm ² | 2,0 | 17,5 | 580 | 280 |
| 1133900515 | 1133300015 | FTG18OHM16FM16 0,6/1KV 1x5x4 mm ² | 2,0 | 19 | 720 | 320 |
| 1133900516 | 1133300016 | FTG18OHM16FM16 0,6/1KV 6x1 mm ² | 1,8 | 16,5 | 460 | 270 |
| 1133900517 | 1133300017 | FTG18XOHM16FM16 0,6/1KV 2x2x0,75 mm ² | 1,8 | 17 | 440 | 290 |
| 1133900518 | 1133300018 | FTG18XOHM16FM16 0,6/1KV 2x2x1 mm ² | 1,8 | 17,5 | 460 | 300 |
| 1133900519 | 1133300019 | FTG18XOHM16FM16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 18,8 | 520 | 320 |
| 1133900520 | 1133300020 | FTG18XOHM16FM16 0,6/1KV 2x2x2,5 mm ² | 1,8 | 20,2 | 610 | 350 |
| 1133900521 | 1133300021 | FTG18XOHM16FM16 0,6/1KV 2x3x0,75 mm ² | 2,0 | 19,3 | 520 | 330 |
| 1133900522 | 1133300022 | FTG18XOHM16FM16 0,6/1KV 2x3x1,5 mm ² | 1,8 | 21,5 | 660 | 370 |
| 1133900523 | 1133300023 | FTG18XOHM16FM16 0,6/1KV 2x3x2,5 mm ² | 2,0 | 23,4 | 790 | 400 |
| 1133900524 | 1133300024 | FTG18XOHM16FM16 0,6/1KV 6x2x1 mm ² | 1,8 | 23,7 | 870 | 400 |
| 1133900525 | 1133300025 | FTG18XOHM16FM16 0,6/1KV 6x2x1,5 mm ² | 2,0 | 24,8 | 980 | 430 |
| 1133900526 | 1133300026 | FTG18XOHM16FM16 0,6/1KV 6x2x2,5 mm ² | 2,0 | 27 | 1200 | 464 |
| 1133900527 | 1133300027 | FTG18XOHM16FM16 0,6/1KV 6x3x1 mm ² | 2,0 | 37,6 | 1120 | 480 |
| 1133900528 | 1133300028 | FTG18XOHM16FM16 0,6/1KV 6x3x1,5 mm ² | 2,0 | 29 | 1280 | 490 |
| 1133900529 | 1133300029 | FTG18XOHM16FM16 0,6/1KV 6x3x2,5 mm ² | 2,0 | 31,6 | 1580 | 540 |
| 1133900530 | 1133300030 | FTG18XOHM16FM16 0,6/1KV 12x2x1 mm ² | 2,0 | 28,5 | 1400 | 490 |
| 1133900531 | 1133300031 | FTG18XOHM16FM16 0,6/1KV 12x2x1,5 mm ² | 2,0 | 31 | 1600 | 520 |

| | | | | | | | |
|------------|------------|-------------------------|--------------------------|-----|------|------|-----|
| 1133900532 | 1133300032 | FTG18XOHM16FM16 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 34,5 | 2000 | 590 |
| 1133900533 | 1133300033 | FTG18XOHM16FM16 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 37,3 | 2150 | 640 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Fire Resistant Instrumentation Cable – 113-4

B2ca s1a-d1-a1 CPR EU 305/2011 EN50200 PH120

Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH.

EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-4/23 10/11/2023 Rev. 0

Type: FTG18XHOHM16FM16 0,6/1Kv - FTG18OHM16FM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: Mica glass tape plus FR-HEPR G18 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4,0 mm ² | 0,70 ± 0,02 mm |
| 6,0 mm ² | 0,70 ± 0,02 mm |
| 10,0 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to cores, Blue - Black numbered, UNEL (or to be agreed)

Pair screen: Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape
(if necessary) 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size
 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape
 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath M16 LSZH extruded compound

Armour Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

Outer sheath: M16 LSZH extruded compound
 Colour: Red/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FTG18XHOHM16FM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120
 WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"

Performance: - Test voltage core to core 3,5 KV
 - Flame retardant according to IEC 60332-3-24, CEI 20-22/3
 - Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
 - Low smoke density emiss. IEC 61034 1/2

- Hydrocarbon and UV resistant
- Fire resistant EN50200 PH120
- Cable for intrinsically safe application
- Inductance \leq 0,90 mH/Km
- Capacitance \leq 0,200 μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH RED | ITEM | THICKNESS OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|-----------------------|---|---------------------------|--------------------|--------------|-------------------|
| 1134900501 | 1134300001 | FTG18OHM16FM16 0,6/1KV 1x2x1,5 mm ² | 1,8 | 13,8 | 320 | 220 |
| 1134900502 | 1134300002 | FTG18OHM16FM16 0,6/1KV 1x2x2,5 mm ² | 1,8 | 14 | 370 | 230 |
| 1134900503 | 1134300003 | FTG18OHM16FM16 0,6/1KV 1x2x4 mm ² | 1,8 | 15 | 430 | 240 |
| 1134900504 | 1134300004 | FTG18OHM16FM16 0,6/1KV 1x2x6 mm ² | 2,0 | 17,5 | 520 | 280 |
| 1134900505 | 1134300005 | FTG18OHM16FM16 0,6/1KV 1x3x1,5 mm ² | 1,8 | 14,4 | 350 | 230 |
| 1134900506 | 1134300006 | FTG18OHM16FM16 0,6/1KV 1x3x2,5 mm ² | 1,8 | 15,7 | 430 | 250 |
| 1134900507 | 1134300007 | FTG18OHM16FM16 0,6/1KV 1x3x4 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1134900508 | 1134300008 | FTG18OHM16FM16 0,6/1KV 1x3x6 mm ² | 2,0 | 18,4 | 640 | 300 |
| 1134900509 | 1134300009 | FTG18OHM16FM16 0,6/1KV 1x3x10 mm ² | 2,0 | 21,3 | 860 | 350 |
| 1134900510 | 1134300010 | FTG18OHM16FM16 0,6/1KV 1x4x1,5 mm ² | 1,8 | 15 | 410 | 240 |
| 1134900511 | 1134300011 | FTG18OHM16FM16 0,6/1KV 1x4x2,5 mm ² | 1,8 | 16,5 | 520 | 270 |
| 1134900512 | 1134300012 | FTG18OHM16FM16 0,6/1KV 1x4x4 mm ² | 2,0 | 17,5 | 620 | 280 |
| 1134900513 | 1134300013 | FTG18OHM16FM16 0,6/1KV 1x4x6 mm ² | 2,0 | 19,4 | 770 | 320 |
| 1134900514 | 1134300014 | FTG18OHM16FM16 0,6/1KV 1x5x2,5 mm ² | 2,0 | 17,5 | 580 | 280 |
| 1134900515 | 1134300015 | FTG18OHM16FM16 0,6/1KV 1x5x4 mm ² | 2,0 | 19 | 720 | 320 |
| 1134900516 | 1134300016 | FTG18OHM16FM16 0,6/1KV 6x1 mm ² | 1,8 | 16,5 | 460 | 270 |
| 1134900517 | 1134300017 | FTG18XHOHM16FM16 0,6/1KV 2x2x0,75 mm ² | 1,8 | 17,8 | 460 | 290 |
| 1134900518 | 1134300018 | FTG18XHOHM16FM16 0,6/1KV 2x2x1 mm ² | 1,8 | 18,4 | 480 | 300 |
| 1134900519 | 1134300019 | FTG18XHOHM16FM16 0,6/1KV 2x2x1,5 mm ² | 1,8 | 19,8 | 540 | 320 |
| 1134900520 | 1134300020 | FTG18XHOHM16FM16 0,6/1KV 2x2x2,5 mm ² | 1,8 | 21,3 | 640 | 350 |
| 1134900521 | 1134300021 | FTG18XHOHM16FM16 0,6/1KV 2x3x0,75 mm ² | 2,0 | 20,4 | 550 | 330 |
| 1134900522 | 1134300022 | FTG18XHOHM16FM16 0,6/1KV 2x3x1,5 mm ² | 1,8 | 22,7 | 700 | 370 |
| 1134900523 | 1134300023 | FTG18XHOHM16FM16 0,6/1KV 2x3x2,5 mm ² | 2,0 | 24,6 | 830 | 400 |
| 1134900524 | 1134300024 | FTG18XHOHM16FM16 0,6/1KV 6x2x1 mm ² | 1,8 | 25 | 920 | 400 |
| 1134900525 | 1134300025 | FTG18XHOHM16FM16 0,6/1KV 6x2x1,5 mm ² | 2,0 | 26,2 | 1030 | 430 |
| 1134900526 | 1134300026 | FTG18XHOHM16FM16 0,6/1KV 6x2x2,5 mm ² | 2,0 | 28,6 | 1270 | 464 |
| 1134900527 | 1134300027 | FTG18XHOHM16FM16 0,6/1KV 6x3x1 mm ² | 2,0 | 29 | 1180 | 480 |
| 1134900528 | 1134300028 | FTG18XHOHM16FM16 0,6/1KV 6x3x1,5 mm ² | 2,0 | 30,6 | 1350 | 490 |

| | | | | | | | |
|------------|------------|--------------------------|--------------------------|-----|------|------|-----|
| 1134900529 | 113400029 | FTG18XHOHM16FM16 0,6/1KV | 6x3x2,5 mm ² | 2,0 | 33,4 | 1670 | 540 |
| 1134900530 | 1134300030 | FTG18XHOHM16FM16 0,6/1KV | 12x2x1 mm ² | 2,0 | 30 | 1480 | 490 |
| 1134900531 | 1134300031 | FTG18XHOHM16FM16 0,6/1KV | 12x2x1,5 mm ² | 2,0 | 32,5 | 1700 | 520 |
| 1134900532 | 1134300032 | FTG18XHOHM16FM16 0,6/1KV | 12x2x2,5 mm ² | 2,0 | 36,5 | 2140 | 590 |
| 1134900533 | 1134300033 | FTG18XHOHM16FM16 0,6/1KV | 12x3x1,5 mm ² | 2,0 | 38,8 | 2270 | 640 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable – 114-1

CPR EU 305/2011

CU, G16 INSULATION, OVERALL SCREEN PCWB, R16 INNER SHEATH, STEEL WIRE BRAID ARMOUR SWB, R16 OUTER SHEATH.

IEC 60332.1 - IEC 60332.3 – OIL RESISTANT – CPR Cca s3, d1, a3

Technical Specifications n° 114-1/23 of 10/11/2023 Rev. 0

Type: FG16OH2R16AR16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228 cl.5

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|----------------|
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to cores UNEL color (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with copper wire braid 60% coverage.

Inner sheath: R16 PVC extruded compound

Armour: Galvanized steel wires braid (SWB)

Outer sheath: R16 PVC extruded compound OIL Resistant
Colour: Grey/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OH2R16AR16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s3-d1-a3 0001mt"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60332-3-24, CEI20-22/3
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------|--------------------|--------------|-------------------|
| 1141900501 | 1141703501 | FG160H2R16AR16 0,6/1Kv 2X1,5 mm ² | 1,8 | 13 | 310 | 190 |
| 1141900502 | 1141703502 | FG160H2R16AR16 0,6/1Kv 3X1,5 mm ² | 1,8 | 13,6 | 370 | 190 |
| 1141900503 | 1141703503 | FG160H2R16AR16 0,6/1Kv 4X1,5 mm ² | 1,8 | 14,2 | 420 | 200 |
| 1141900504 | 1141703504 | FG160H2R16AR16 0,6/1Kv 5X1,5 mm ² | 1,8 | 15,3 | 460 | 220 |
| 1141900505 | 1141703505 | FG160H2R16AR16 0,6/1Kv 7X1,5 mm ² | 1,8 | 16,3 | 590 | 230 |
| 1141900506 | 1141703506 | FG160H2R16AR16 0,6/1Kv 9X1,5 mm ² | 2,0 | 18,4 | 680 | 270 |
| 1141900507 | 1141703507 | FG160H2R16AR16 0,6/1Kv 12X1,5 mm ² | 2,0 | 20,2 | 850 | 290 |
| 1141900508 | 1141703508 | FG160H2R16AR16 0,6/1Kv 24X1,5 mm ² | 2,0 | 26,2 | 1360 | 380 |
| 1141900509 | 1141703509 | FG160H2R16AR16 0,6/1Kv 2X2,5 mm ² | 1,8 | 14 | 370 | 200 |
| 1141900510 | 1141703510 | FG160H2R16AR16 0,6/1Kv 3X2,5 mm ² | 1,8 | 14,5 | 470 | 210 |
| 1141900511 | 1141703511 | FG160H2R16AR16 0,6/1Kv 4X2,5 mm ² | 1,8 | 16 | 550 | 230 |
| 1141900512 | 1141703512 | FG160H2R16AR16 0,6/1Kv 5X2,5 mm ² | 1,8 | 16,5 | 580 | 240 |
| 1141900513 | 1141703513 | FG160H2R16AR16 0,6/1Kv 7X2,5 mm ² | 1,8 | 18,2 | 740 | 260 |
| 1141900514 | 1141703514 | FG160H2R16AR16 0,6/1Kv 9X2,5 mm ² | 2,0 | 19,8 | 870 | 280 |
| 1141900515 | 1141703515 | FG160H2R16AR16 0,6/1Kv 12X2,5 mm ² | 2,0 | 22 | 1070 | 320 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable – 114-2

CPR EU 305/2011

CU, G16 INSULATION, OVERALL SCREEN PCWB, R16 INNER SHEATH, STEEL WIRE ARMOUR SWA, R16 OUTER SHEATH.

IEC 60332.1 - IEC 60332.3 – OIL RESISTANT – CPR Cca s3, d1, a3

Technical Specifications n° 114-2/23 of 10/11/2023 Rev. 0

- Type:** FG16OH2R16FR16 0,6/1 KV
- Conductor:** Flexible metal conductor according to IEC60228 cl.5
- Insulation:** EPR G16 type extruded compound
- Temperature range -30 +90° C
Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|----------------|
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |
| 4 mm ² | 0,70 ± 0,02 mm |

- Laying up:** Twisted to cores UNEL color (or to be agreed)
- Overall screen:** Applied over total assembly will be wrapped with polyester tape and shielded with copper wire braid 60% coverage.
- Inner sheath:** R16 PVC extruded compound
- Armour:** Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)
- Outer sheath:** R16 PVC extruded compound OIL Resistant
Colour: Grey/Black (or to be agreed)
- Marking:** On the outer sheath "Sensitherm – FG16OH2R16FR16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s3-d1-a3 0001mt"
- Performance:**
- Test voltage core to core 3,5KV
 - Flame retardant according to IEC60332-3-24, CEI20-22/3
 - Hydrocarbon and UV resistant
 - Rodent resistant
 - Fit for direct burial
 - This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
 - EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH GREY | ITEM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|---|------------------------|--------------------|--------------|-------------------|
| 1142900501 | 1142703501 | FG160H2R16FR16 0,6/1Kv 2X1,5 mm ² | 1,8 | 13,4 | 320 | 190 |
| 1142900502 | 1142703502 | FG160H2R16FR16 0,6/1Kv 3X1,5 mm ² | 1,8 | 14 | 380 | 190 |
| 1142900503 | 1142703503 | FG160H2R16FR16 0,6/1Kv 4X1,5 mm ² | 1,8 | 14,6 | 430 | 200 |
| 1142900504 | 1142703504 | FG160H2R16FR16 0,6/1Kv 5X1,5 mm ² | 1,8 | 15,8 | 480 | 220 |
| 1142900505 | 1142703505 | FG160H2R16FR16 0,6/1Kv 7X1,5 mm ² | 1,8 | 16,8 | 610 | 230 |
| 1142900506 | 1142703506 | FG160H2R16FR16 0,6/1Kv 9X1,5 mm ² | 2,0 | 19 | 700 | 270 |
| 1142900507 | 1142703507 | FG160H2R16FR16 0,6/1Kv 12X1,5 mm ² | 2,0 | 20,8 | 880 | 290 |
| 1142900508 | 1142703508 | FG160H2R16FR16 0,6/1Kv 24X1,5 mm ² | 2,0 | 27 | 1400 | 380 |
| 1142900509 | 1142703509 | FG160H2R16FR16 0,6/1Kv 2X2,5 mm ² | 1,8 | 14,4 | 380 | 200 |
| 1142900510 | 1142703510 | FG160H2R16FR16 0,6/1Kv 3X2,5 mm ² | 1,8 | 15 | 490 | 210 |
| 1142900511 | 1142703511 | FG160H2R16FR16 0,6/1Kv 4X2,5 mm ² | 1,8 | 16,5 | 570 | 230 |
| 1142900512 | 1142703512 | FG160H2R16FR16 0,6/1Kv 5X2,5 mm ² | 1,8 | 17 | 600 | 240 |
| 1142900513 | 1142703513 | FG160H2R16FR16 0,6/1Kv 7X2,5 mm ² | 1,8 | 18,8 | 760 | 260 |
| 1142900514 | 1142703514 | FG160H2R16FR16 0,6/1Kv 9X2,5 mm ² | 2,0 | 20,4 | 900 | 280 |
| 1142900515 | 1142703515 | FG160H2R16FR16 0,6/1Kv 12X2,5 mm ² | 2,0 | 22,6 | 1100 | 320 |

Weight and diameter: Are theoretical + / - 10%

Intended use: Instrumentation cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Control and Power Cable - 115

CPR EU 305/2011

CU, G16 INSULATION, OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE – Cca s1b, d1, a1

Technical Specifications n° 115/24 of 26/06/2024 Rev. 0

Type: FG16OHM16 0,6/1Kv
Conductor: Flexible copper conductor according to IEC60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|---------------------|----------------|
| 1,5 mm ² | 0,70 ± 0,02 mm |
| 2,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to cores UNEL color (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Outer sheath: M16 LSZH extruded compound
 Colour: Grey/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FG16OHM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001mt"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60332-3-22, CEI20-22/2
- Low smoke and Halogen free as per IEC60754-2, CEI20-37/2
- Low smoke density emiss. IEC61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

| CODE OUTER SHEATH BLACK | CODE OUTER SHEATH BLUE | ITEM | THICK. OUTER SHEATH MM | OVERAL DIAMETER MM | WEIGHT KG/KM | BENDING RADIUS MM |
|-------------------------|------------------------|--|------------------------|--------------------|--------------|-------------------|
| 1151900501 | 1151501501 | FG16OHM16 0,6/1Kv 4x1,5 mm ² | 1,8 | 10,9 | 190 | 90 |
| 1151900502 | 1151501502 | FG16OHM16 0,6/1Kv 5x1,5 mm ² | 1,8 | 11,7 | 230 | 90 |
| 1151900503 | 1151501503 | FG16OHM16 0,6/1Kv 7x1,5 mm ² | 1,8 | 12,7 | 280 | 100 |
| 1151900504 | 1151501504 | FG16OHM16 0,6/1Kv 12x1,5 mm ² | 1,8 | 16 | 440 | 130 |
| 1151900505 | 1151501505 | FG16OHM16 0,6/1Kv 16x1,5 mm ² | 1,8 | 17,5 | 550 | 140 |
| 1151900506 | 1151501506 | FG16OHM16 0,6/1Kv 19x1,5 mm ² | 2,0 | 18 | 620 | 150 |
| 1151900507 | 1151501507 | FG16OHM16 0,6/1Kv 27x1,5 mm ² | 2,0 | 22,7 | 840 | 180 |
| 1151900508 | 1151501508 | FG16OHM16 0,6/1Kv 4x2,5 mm ² | 1,8 | 11,9 | 250 | 90 |
| 1151900509 | 1151501509 | FG16OHM16 0,6/1Kv 5x2,5 mm ² | 1,8 | 13 | 300 | 100 |
| 1151900510 | 1151501510 | <u>FG16OHM16</u> 0,6/1Kv 7x2,5 mm ² | 1,8 | 14 | 380 | 110 |
| 1151900511 | 1151501511 | FG16OHM16 0,6/1Kv 12x2,5 mm ² | 1,8 | 17,9 | 590 | 140 |
| 1151900512 | 1151501512 | FG16OHM16 0,6/1Kv 16x2,5 mm ² | 2,0 | 19,8 | 750 | 160 |
| 1151900513 | 1151501513 | FG16OHM16 0,6/1Kv 19x2,5 mm ² | 2,0 | 20,8 | 860 | 170 |
| 1151900514 | 1151501514 | FG16OHM16 0,6/1Kv 24x2,5 mm ² | 2,0 | 24,2 | 1070 | 190 |
| 1151900515 | 1151501515 | FG16OHM16 0,6/1Kv 27x2,5 mm ² | 2,0 | 24,7 | 1180 | 200 |

Weight and diameter: Are theoretical + / - 10%

Thermocouple extension Cable - 116 CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 116/25 07/02/2025 Rev. 0

Type: FG16XHOHM16 0,6/1 KV - FG16XOHM16 0,6/1KV - FG16OHM16 0,6/1Kv

Conductor: Flexible metal conductor

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C

Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair (or to be agreed)

**Pair screen:
(if necessary)** Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Outer sheath: M16 LSZH extruded compound
Colour: to be agreed

Marking: On the outer sheath "Sensitherm – TC FG16XHOHM16 0,6/1 KV Siz. IEC 60332.3 IEC 60584
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved Cca s1b,d1,a1

Thermocouple extension Cable - 117 CPR EU 305/2011

**TC Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH
IEC 60584 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 117/25 of 07/02/2025 Rev. 0

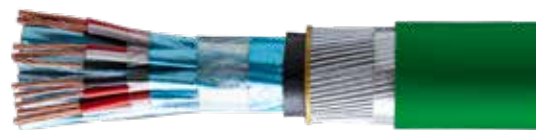
Type: FG16XHOHM16AM16 0,6/1KV - FG16XOHM16AM16 0,6/1KV
FG16XHOHM16FM16 0,6/1 KV - FG16XOHM16FM16 0,6/1KV
FG16OHM16FM16 0M6/1Kv - FG16OHM16AM16 0,6/1Kv

Conductor: Flexible metal conductor

Insulation: EPR G16 type extruded compound

Temperature range -30 +90° C

Temperature laying 0 +70° C



tutte le immagini sono inserite a scopo illustrativo

| SIZE | THICKNESS |
|----------------------|----------------|
| 0,75 mm ² | 0,70 ± 0,02 mm |
| 1,0 mm ² | 0,70 ± 0,02 mm |
| 1,5 mm ² | 0,70 ± 0,02 mm |

Laying up: Twisted to pair, (or to be agreed)

Pair screen: (if necessary) Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires plus wrapping polyester tape (SWA) or Galvanized steel wires braid (SWB)

Outer sheath: M16 LSZH extruded compound
Colour: to be agreed

Marking: On the outer sheath "Sensitherm – TC FG16XHOHM16FM16 0,6/1 KV Siz. IEC 60332.3 IEC60584 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- Low smoke and Halogen free as per IEC 60754-2, CE I20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- CPR approved Cca s1b,d1,a1
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

Lan Data Cables - Ethernet

Transmission data cables fit for Petrochemical Industry

Types: U/UTP - F/UTP - F/FTP - SF/FTP - S/STP

Categories: 5 - 5e - 6 - 6A - 7

Application: Indoor PVC
Outdoor LSZH

| SIZE |
|-------------|
| 4x2xAWG22/1 |
| 4x2xAWG23/1 |
| 4x2xAWG24/1 |

Unarmoured: UV and HYDROCARBON resistant outer jacket

Armour: SWB – Steel wire braid, wires 0,3 mm
SWA – Steel round wires, wires 0,9 mm

Fire resistant: Version according to IEC 60331 – PH120

Outer sheath: Special compounds UV and hydrocarbon resistant type SHF1 or SHF2

Performance:

- Acc. To EIA/TIA 568-A
- Acc. to RS485 protocol
- Water resistant to IEC 60811
- Flame retardant according to IEC 60332-1 or IEC 60332-3
- Low smoke and Halogen free as per IEC 60754-2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant

TAYLOR MADE CONSTRUCTION ACCORDING TO END USER SPECIFICATIONS

LAN Data cable - 102

CPR EU 305/2011 Eca

F/UTP Cat. 5e 4x2xAWG24/1 armour

Technical Specifications n° 102/24 14/01/2024 Rev. 0

Type: F/UTP 4x2xAWG24/1 Cat. 5e Armour SWB – Hydrocarbon

Conductor: Bare copper conductor Ø 0,51 mm (AWG24/1)

Insulation: PE – colour coding:
White/blue, white/green, white/orange, white/brown

Temperature range -20 +60° C

| SIZE | CABLE DIAMETER MM | CABLE WEIGHT KG/KM |
|-------------|-------------------|--------------------|
| 4x2xAWG24/1 | 10,1 (+/- 10%) | 61 |

Twisting: 2 cores to the pair

Lay up: 4 pairs to the core

Overall screen: Applied over total assembly will be shielded with Aluminium/Mylar tape + tinned copper drain wire AWG26

Inner sheath: LSZH extruded compound

Armour: SWB – Galvanized steel wires braid, wires mm 0,3

Outer sheath: LSZH special compound extruded, type M16 CPR, black or to be agreed

Marking: On the outer sheath by ink-jet "Sensitherm – F/UTP cat. 5e 4x2xAWG24/1 armoured
WWW/YY (Batch/Num.) Eca 0001 m"

Performance:

- Test voltage 1 KV
- Flame retardant according to IEC 60332-1
- Gen spec acc to EN 50173-1 en 50288-2-1
- ISO/IEC 11801 – IEC 61156-5
- TIA/EIA-568-C.2 IEEE802.3at CE
- Impedance: 100 Ohm
- Mutual capacitance at 800 Hz: nominal 48 nF/km
- Nominal velocity of propagation: 67%
- Loop resistance: $\leq 190 \Omega/km$
- Hydrocarbon and UV resistant
- Rodent resistant

Cable fit for performing data transmission in industrial environments, also for Oil&Gas petrochemical application.

Suitable for indoor/outdoor installation

Fieldbus Cables – Profibus - Profinet

Data Bus transmission cables fit for Petrochemical Industry

Main types:

- Profibus 1x2x0,64 Iszh 1500hm armour - hydrocarbon**
- Profinet 2x2xAWG22 Iszh 1500hm armour - hydrocarbon**
- Can bus 2x2xAWG24 Iszh 1200hm armour - hydrocarbon**
- Fieldbus Foundation 1x2x1 1000hm armour - hydrocarbon**

Insulation **Foam skin Polyethylene**

Overall screen 1 **Aluminium/mylar tape**

Overall screen 2 **tinned copper braid**

Unarmoured **UV and HYDROCARBON resistant outer jacket**

Armour

- SWB – Steel wire braid, wires 0,3 mm
- SWA – Steel wires, wires 0,9 mm

Fire resistant **Version according to IEC 60331 – PH120**

Outer sheath: **Special compounds UV and hydrocarbon resistant type SHF1 or SHF2**

Performance:

- Acc. to EN50170
- Acc. to Protocol a, b
- Water resistant to IEC 60811
- Flame retardant according to IEC 60332-1 or IEC 60332-3
- Low smoke and Halogen free as per IEC 60754-2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant

TAYLOR MADE CONSTRUCTION ACCORDING TO END USER SPECIFICATIONS

Fibre Optic Cables - Armoured

Optical Fibre Cables fit for Petrochemical Industry

Main types: **Loose tube jelly filled f.o. cable armour - hydrocarbon**
 Multimode fibre 50/125 OM2 – OM3
 Single-mode fibre 9/125 G.652

Special type **Armoured fire resistant fibre optic cable A-DQ(ZN)B2Y**

Type of tube **Ø 2,9 mm jelly filled loose tube with 2 up to 24 fibres**

Type of fibre **50/125 or 9/125**

Strain relief **Longitudinal water blocking system**

Armour **corrugated galvanized steel tape + glass yarn**

Outer jacket **LSZH special compound UV stabilized**

| | | |
|--------------------|-------------------------|---|
| Performance | Flame retardancy | IEC 60332-3-24 |
| | Fire resistance | IEC 60331-25 EN 50200 |
| | Halogen free | IEC 60754-2 |
| | Crush Test | 2200 N/10cm as per IEC 60794-1-21 E3 |
| | Tensile strength | 1000N |

Unarmoured: UV and HYDROCARBON resistant outer jacket

Armour: SWB – Steel wire braid, wires 0,3 mm
 SWA – Steel wires, wires 0,9 mm

Outer sheath: Special compounds UV and hydrocarbon resistant type SHF1 or SHF2

TAYLOR MADE CONSTRUCTION ACCORDING TO END USER SPECIFICATIONS

Types of shields

Aluminum/Mylar tape plus drain conductor for single pair shielding and/or for total shielding of the stranded cable.
Copper tape.
Shield in bare or tinned copper braid.

SCHIELDING

The shield is used to protect the cable from internal (single pair/triad shield) or external (total shield) interference.

SINGLE PAIR/TRIAD INTERNAL SHIELD

- Internal interference is transmitted via capacitive or electromagnetic induction, when pulsating direct current signals or alternating current signals are transmitted in the various pairs/triples of the cable.
- To avoid this interference (which in the case of intrinsically safe signals could even be dangerous), the individual elements of the cable are wrapped with Aluminium/Mylar tapes with a tinned copper drain conductor which runs in contact with the Aluminum part of the tape and is used to ground the screen itself which will take place on a specially provided ground bar and in a single point which is usually in the switchboard in a safe area.

TOTAL SCREENING OF THE CABLE AGAINST EXTERNAL INTERFERENCE:

- In the case of interference generated from outside, the type and material of the screen must be suitable for the type of interference;
- In the case of electrostatic interference (ex. induced by a power line) this coupling causes a disturbance signal which is superimposed on the signal transmitted in the conductors.
- To eliminate this risk, the cable is wrapped around the whole with Aluminium/Mylar tapes with a tinned copper drainage conductor which runs in contact with the Aluminum part of the tape and serves to ground the shield itself which will take place on a bar of earth affixed and in a single point which is usually in the switchboard in a safe area.
- In the case of high intensity electrostatic discharges which usually originate outside the cable, the screen that lends itself best is that of Aluminium/Mylar tape + copper braid where the aluminum and the braid are in contact with each other.
- In the case of particular cables where a low impedance is required (data cables, computers) or a low resistance value of the shield (power supply to motors from inverters) or for mobile cables, copper braid shielding is recommended as it is mechanically more resistant.



Armour

ARMOUR The main function of the Armour is to mechanically protect the cable from shocks, abrasions, crushing, rodents and to give greater tensile strength to the cable during laying operations. This cable protection is also essential in ATEX explosion risk plants, especially for the EExd version where accidental breaking of the cable in the dangerous area could cause dangerous sparks. The reinforcement is also used in "general purpose" systems for outdoor installation when it is preferable to save on assembly systems. The solutions are various according to the application.

SWB

- Braided armour of galvanized iron wires.
- Light armour which gives the cable a good tensile strength and good protection against rodents (over 80% coverage), furthermore it allows for a small bending radius and good flexibility.

SWA

- Armour bundle of galvanized iron wires.
- Heavy armour suitable for heavy use with excellent resistance to traction, rodents (over 90% coverage), crushing, has a moderate radius of curvature and flexibility.
- It is usually made with a bundle of wires with an elementary diameter of 0.9mm to 2.00mm with heavy PET tape wrapped over it.
- In case of even heavier use, a galvanized iron tape can be wrapped over the bundle of wires.

DSTA

- Double tape armour of galvanized iron.
- Heavy armour with excellent resistance to crushing, shocks and rodents (over 120% coverage).
- It is not suitable where tensile strength is required or where a tight bend radius and some flexibility are needed.



SWACS

Steel Wires +
Counterspiral Steel
Tape Armour



SWA

Single Layer of
Galv. Steel
Wire Armour



STA

Steel
Tape Armour



SWB

Steel Wire Braid



**100% SUSTAINABLE PRODUCTION
ZERO ENVIRONMENTAL IMPACT**



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