

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

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, (if required) 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 braid wires

Outer sheath: PVC, Polyvinylchloride Low Smoke and Fume extruded compound
Colour: Blu/Black/Grey (or to be agreed)

Marking: On the outer 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 < /= 22%
- Hydrocarbon UV resistant
- Inductance < /= 0,90 mH/Km
- Capacitance < /= 0,25 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. DIA 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%