

# Instrumentation Cable- 108

# CPR ECA

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

## Technical Specifications n° 108/22 of 04/07/2022 Rev. 0

**Type:** F-Cu/PVC/IS/OS/PVC/SWA/PVC 450/750V - FR2XHOHRFR 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 <sup>2</sup>	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 braid wires

**Outer sheath:** PVC, Polyvinylchloride Low Smoke and Fume extruded compound  
 Colour: Black (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  $\leq$  22%
- Hydrocarbon UV resistant
- Inductance  $\leq$  0,90 mH/Km
- Capacitance  $\leq$  0,25 microF/Km

ITEM			SHEATH THICKNESS	EXT.DIAM MM	W. KG/KM	ARMOUR DIAM.	BENDING RADIUS
FR2XOHRAR	450/750V	1x2x0,75	1,2	10,8	180	0,30	151
FR2XOHRAR	450/750V	1x3x0,75	1,2	11,2	210	0,30	157
FR2XOHRFR	450/750V	2x2x0,75	1,4	15	300	0,90	210
FR2XOHRFR	450/750V	4x2x0,75	1,6	17	420	0,90	238
FR2XOHRFR	450/750V	6x2x0,75	1,8	19,8	560	0,90	277

Weight and diameter are theoretical +/- 10%