

Instrumentation Cables

XLPE Insulated, 500V, Fire Resistant

HFFR SWA Armoured HFFR Cable



C5928, C5929, C5930, C5931, C5932, C5933, C5934, C5935, C5936, C5937

Applications

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Suitable for direct burial applications.

Design

Unit	Properties
Conductor	Class 2 Plain Copper Wire
Wrapping	Mica Tape over conductor
Insulation	Cross-linked Polyethylene (XLPE) Color: White and Black numbered
Pairs	Two cores twisted together
Individual screen (if applicable)	Al/PET Tape over pairs
Overall screen	Al/PET Tape
Bedding	Halogen Free Flame Retardancy (HFFR)
Armour	Galvanized Steel Wire Armour
Outer Sheath Material	UV Resistant Halogen Free Flame Retardancy (HFFR) Standard Colour: Black
Standard Put Up Length	305M or 500m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Electrical Characteristics at 20°C

Conductor Size(sqmm)	Max. DCR (Ohm/km)	Max. Mutual Capacitance (pF/m) at 1KHz	Max. L/R ratio (μH/Ω)	Min Insulation Resistance (GOhm/km)	Voltage Rating (V)	Operating Temperature (°C)
1.0	36.36	150	25	1.0	500	+90
1.50	24.8	150	25	1.0	500	+90

Constructional Information

PN	Number Of Pairs/Traids	Conductor Construction (sq mm)	Insulation Thickness (mm)	Individual Screen	Overall screen	Bedding Diameter (mm)	SWA Armour Wire	Overall Diameter (mm)	Sheath Color
C5928	10 pairs	1.00	0.70	Yes	Yes	20.4	Yes	25.7	Black
C5929	20 pairs	1.00	0.70	Yes	Yes	37.8	Yes	44.3	Black
C5930	1 pair	1.50	0.70	No	Yes	9.1	Yes	12.9	Black
C5931	5 pairs	1.50	0.70	Yes	Yes	22.4	Yes	27.3	Black
C5932	5 pairs	1.00	0.70	No	Yes	20.1	Yes	25.4	Orange
C5933	10 pairs	1.00	0.70	No	Yes	29.4	Yes	35.5	Orange
C5934	1 pair	1.50	0.70	No	Yes	9.1	Yes	12.9	Orange
C5935	1 Triad	1.50	0.70	No	Yes	9.7	Yes	13.5	Orange
C5936	5 Triads	1.50	0.70	No	Yes	23.7	Yes	29.4	Orange
C5937	12 Triads	1.50	0.70	No	Yes	36.3	Yes	42.8	Orange

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Reference Standards

BS 60502-1	EN 50290-2
BS EN 60228	IEC60331
RoHS directives	