

Instrumentation Cables

XLPE Insulated, 500V, Fire Resistant

HFFR SWA Armoured HFFR Cable



C5924, C5925, C5926, C5927

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
Cabling	Cores cabled together
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)
2.50	7.41	150	25	1.0	500	+90
4.00	4.61	150	25	1.0	500	+90

Constructional Information

PN	Number of Cores	Conductor Construction (sq mm)	Insulation Thickness (mm)	Bedding Diameter(mm)	SWA Armour Wire Diameter (mm)	Overall Diameter (mm)
C5924	2	2.50	0.70	10.0	0.90	13.8
C5925	12	2.50	0.70	19.0	1.25	24.7
C5926	21	2.50	0.70	23.8	1.25	29.8
C5927	4	4.00	0.70	13.0	0.90	17.2

Reference Standards

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