

Instrumentation Cables

BS EN 50288-7

XLPE insulated SWA Armoured Cable



C4918, C4919, C4920, C4921, C4922, C4923, C4924

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
Insulation	Cross-linked Polyethylene (XLPE) Color: White and Black numbered
Twinning	Pair construction
Drain Wire	Tinned copper wire
Collective Screening	Aluminum/Polyester tape
Bedding	TPE
Armour	Galvanized Steel Wire Armour
Outer Sheath Material	Flame Retardant PVC 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)
1.50	24.8	150	25	1.0	300/500	+90
2.50	7.41	150	25	1.0	300/500	+90

Constructional Information

PN	Number of Pairs/Triads	Conductor Construction (sq mm)	Drain Wire Size (sq mm)	SWA Armour or Unarmoured	Overall Diameter (mm)
C4918	1 pair	1.50	0.50	Yes	11.2
C4919	10 pair	1.50	0.50	Yes	26.0
C4920	20 pair	1.50	0.50	No	29.2
C4921	1Traid	1.50	0.50	Yes	11.7
C4922	5Traid	1.50	0.50	Yes	20.7
C4923	15Traid	1.50	0.50	Yes	30.5
C4924	1 pair	2.50	0.50	Yes	11.9

Reference Standards

BS50228-7	EN 50290-2
BS EN 60228	IEC60332-3 catA
RoHS directives	