

Instrumentation Cables

BS EN 50288-7

XLPE insulated SWA Armoured LSZH-HFFR Cables



C5976, C5977, C5978, C5979, C5980, C5981, C5982

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 for Pairs White, Red and Black numbered for Traids
Twinning	Pair or Triad construction
Individual Screening	Polyester Tape and Aluminum/Polyester tape
Collective Screening	Aluminum/Polyester tape
Bedding	Flame-Retardant Halogen Free (HFFR/LSZH)
Armour	Galvanized Steel Wire Armour
Outer Sheath Material	Flame-Retardant Halogen Free (HFFR/LSZH) Standard Colour: Red or Blue or 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)	Overall Diameter (mm)
C5976	12 pairs	1.0	24.1
C5977	8 Triads	1.0	21.6
C5978	1 pair	1.5	11.2
C5979	12pairs	1.5	28.6
C5980	15 Pairs	1.5	31.2
C5981	1Traid	1.5	11.7
C5982	12Traids	1.5	30.6

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Reference Standards

BS50228-7	EN 50290-2
BS EN 60228	IEC 60332-3-24
IEC 61034	IEC 60754-1 & 2
RoHS directives	