

Instrumentation Cables

BS EN 50288-7

XLPE insulated SWA Armoured Cable



C5920, C5921

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 Traid construction
Individual screen	Al/PET tape over pairs or Triads
Drain Wire	Tinned copper wire
Collective Screening	Aluminum/Polyester 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 ($\mu\text{H}/\Omega$)	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)	Drain Wire Size (sq mm)	SWA Armour	Overall Diameter (mm)
C5920	3pairs	1.00	0.50	0.90	17.6
C5921	1Traid	1.50	0.50	0.90	11.7

Reference Standards

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