

Control and Instrumentation Cables

PAS/BS5308 Part I, Type I

HFFR/LSZH Sheath

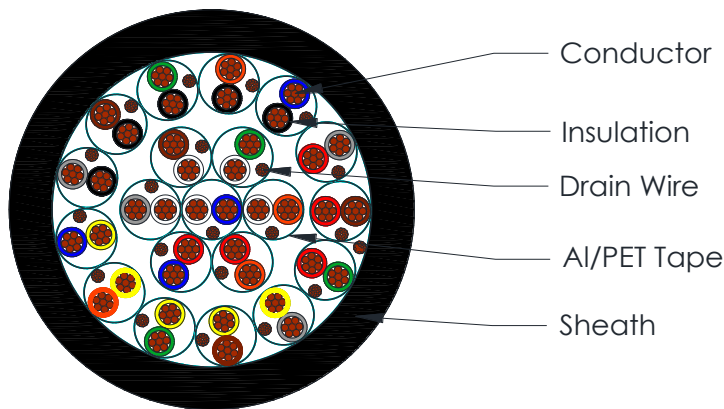


C5318 TO C5325

Applications

Process control, equipment interconnection, typically in chemical and petrochemical locations. The unarmoured versions (Type 1) are generally use for indoor installation and suitable for wet and damp areas.

Cross Section Drawing



Design

Unit	Properties
Conductor	Plain copper wire
Insulation	PE
Twinning	Pair construction
Individual Screening	Aluminum/Polyester tape with Tinned copper drain wire
Collective Screening	Aluminum/Polyester tape with Tinned copper drain wire
Outer Sheath Material	Hailogen Free Flame Retardant HFFR/LSZH 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.

Control and Instrumentation Cables

PAS/BS5308 Part I, Type I

HFFR/LSZH Sheath



C5318 TO C5325

Electrical Characteristics at 20°C

Conductor Size (sq mm)	Conductor Construction	Max. DCR (Ohm/km)	Max. Mutual Capacitance (pF/m) at 1KHz		Max. Mutual Capacitance unbalance (pF/500m) at 1KHz	Test voltage between conductors and between conductors and screen (V r.m.s.)	Max. L/R ratio (μH/Ω)	Min Insulation Resistance of PE (M.Ohm/km)
			Cables with only collective screens (except 1 pair and 2 pair)	1 Pair and 2 pair cables collectively screen or individual pair screens				
0.75	24*0.2	26.5	75	115	500	1000	25	5000
1.50	7*0.53	12.3	85	120	500	1000	40	5000

Color Scheme

Pair No.	Color		Pair No.	Color	
1	White	Blue	6	Red	Blue
2	White	Orange	7	Red	Orange
3	White	Green	8	Red	Green
4	White	Brown	9	Red	Brown
5	White	Grey	10	Red	Grey

Constructional Information

Part 1: Type1: Individually & Collectively Screened Unarmoured

P/N	Number of Pairs	Conductor Construction (sq mm)	Nom. Radial Thickness of Insulation (mm)	Drain wire cross section (sq mm)	Nom. Thickness of Jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C5318	1	0.75 (24*0.2)	0.60	0.50	1.10	5.90	45.0
C5319	2	0.75 (24*0.2)	0.60	0.50	1.10	11.80	135.3
C5320	5	0.75 (24*0.2)	0.60	0.50	1.20	15.20	237.2
C5321	10	0.75 (24*0.2)	0.60	0.50	1.30	21.60	425.3
C5322	1	1.50 (7*0.53)	0.60	0.50	1.20	6.68	65.0
C5323	2	1.50 (7*0.53)	0.60	0.50	1.20	13.70	191.5
C5324	5	1.50 (7*0.53)	0.60	0.50	1.30	17.80	349.9
C5325	10	1.50 (7*0.53)	0.60	0.50	1.50	25.50	644.1

Reference Standards

BS5308 Part 1	EN 50290-2
BS EN 60228	RoHS directives
BS 7655	IEC60332-3-24
IEC 61034	IEC 60754-1 &-2