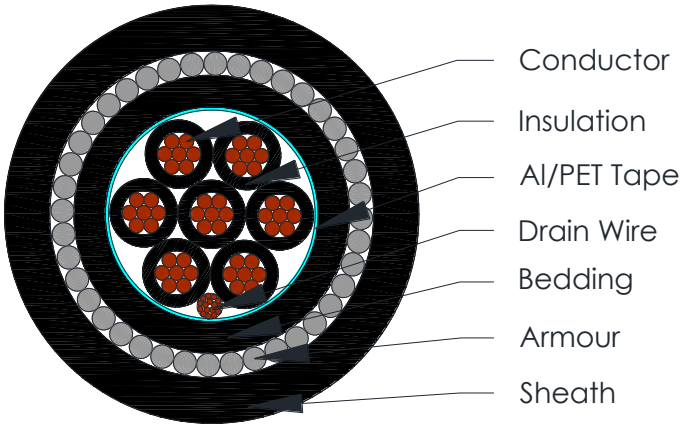
Control and Instrumentation Cables
PAS/BS5308 Part 1, Type 1 & 2
LSZH-HFFR Sheath

C3411 TO C3427

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. The armoured versions (Type 2) are generally used for outdoor applications and can be used in direct burial applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Class5 plain copper wire
Insulation	PE Color: Black with Numbers
Cabling	Cores cabled together
Screen	Aluminum/Polyester tape with Tinned copper drain wire
Bedding (where requested)	Halogen Free Flame Retardant (HFFR)
Armour (where requested)	Galvanized Steel Wire Armour
Outer Sheath Material	Halogen Free Flame Retardant (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.

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Electrical Characteristics at 20°C

Conductor Size(sqmm)	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)
1.50	7*0.53	12.3	75	500	1000	40	5000
2.50	7*0.67	7.6	105	500	1000	60	5000

Constructional Information

Part 1: Type1: Collectively Screened Unarmoured

P/N	Number of Cores	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)
C3411	2	1.50 (7*0.53)	0.6	0.5	0.80	7.30	67.6
C3412	4	1.50 (7*0.53)	0.6	0.5	0.90	8.60	113.2
C3413	6	1.50 (7*0.53)	0.6	0.5	1.00	9.90	162.6
C3414	8	1.50 (7*0.53)	0.6	0.5	1.00	11.00	208.3
C3415	12	1.50 (7*0.53)	0.6	0.5	1.10	13.90	307.5
C3416	14	1.50 (7*0.53)	0.6	0.5	1.10	14.60	351.9
C3417	20	1.50 (7*0.53)	0.6	0.5	1.30	17.10	512.4

Part 1: Type2: Collectively Screened Armoured

P/N	Number of Cores	Conductor Construction (sq mm)	Nom. Radial Thickness of Insulation (mm)	Drain wire cross section (sq mm)	Diameter of Bedding (mm)	Diameter of Armour (mm)	Nom. Thickness of Jacket (mm)	Nom. Diameter of cable (mm)	Nom. Weight (kg/km)
C3418	2	1.50 (7*0.53)	0.60	0.50	7.30	9.10	1.40	11.90	245
C3419	6	1.50 (7*0.53)	0.60	0.50	9.90	11.70	1.40	14.50	458
C3420	7	1.50 (7*0.53)	0.60	0.50	10.50	12.30	1.40	15.10	509
C3421	8	1.50 (7*0.53)	0.60	0.50	11.00	12.80	1.40	15.60	558
C3422	15	1.50 (7*0.53)	0.60	0.50	15.60	18.10	1.60	21.30	1018
C3423	20	1.50 (7*0.53)	0.60	0.50	17.10	19.60	1.70	23.00	1262
C3424	30	1.50 (7*0.53)	0.60	0.50	20.80	24.00	1.80	27.60	1867
C3425	40	1.50 (7*0.53)	0.60	0.50	23.70	26.90	1.80	30.50	2357
C3426	2	2.50(7*0.67)	0.60	0.50	8.30	10.10	1.40	12.90	307
C3427	3	2.50(7*0.67	0.60	0.50	8.80	10.60	1.40	13.40	377

C3411 TO C3427

Reference Standards

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