

Control and Instrumentation Cables

PAS/BS5308 Part 1, Type 1 & 2

LSZH-HFFR Sheath

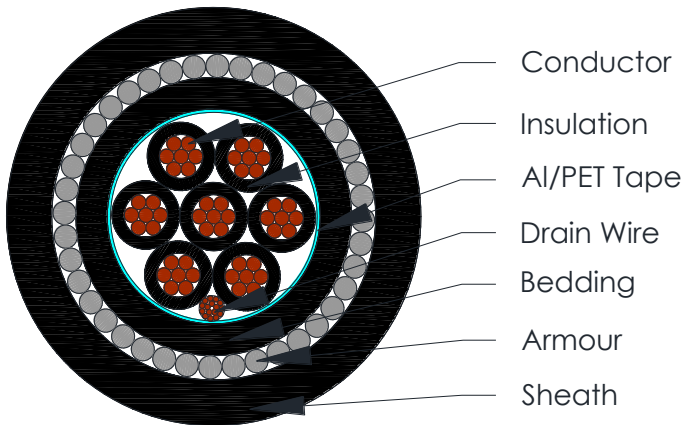


C5225 TO C5246

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 Fire Retardancy (HFFR)
Armour (where requested)	Galvanized Steel Wire Armour
Outer Sheath Material	Halogen Free Fire 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.

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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)
C5225	2	1.50 (7*0.53)	0.6	0.5	0.80	7.30	67.6
C5226	4	1.50 (7*0.53)	0.6	0.5	0.90	8.60	113.2
C5227	5	1.50 (7*0.53)	0.6	0.5	0.90	9.40	141.6
C5228	6	1.50 (7*0.53)	0.6	0.5	1.00	9.90	162.6
C5229	8	1.50 (7*0.53)	0.6	0.5	1.00	11.00	208.3
C5230	12	1.50 (7*0.53)	0.6	0.5	1.10	13.90	307.5
C5231	14	1.50 (7*0.53)	0.6	0.5	1.10	14.60	351.9
C5232	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)
C5233	2	1.50 (7*0.53)	0.60	0.50	7.50	9.30	1.40	12.10	245
C5234	3	1.50 (7*0.53)	0.60	0.50	7.70	9.50	1.40	12.30	301
C5235	6	1.50 (7*0.53)	0.60	0.50	9.90	11.70	1.40	14.50	458
C5236	7	1.50 (7*0.53)	0.60	0.50	10.50	12.30	1.40	15.10	509
C5237	8	1.50 (7*0.53)	0.60	0.50	11.00	12.80	1.40	15.60	558
C5238	12	1.50 (7*0.53)	0.60	0.50	13.60	16.10	1.50	17.80	661
C5239	15	1.50 (7*0.53)	0.60	0.50	15.60	18.10	1.60	21.30	950
C5240	16	1.50 (7*0.53)	0.60	0.50	15.70	18.20	1.60	21.40	1018
C5241	20	1.50 (7*0.53)	0.60	0.50	17.10	19.60	1.70	23.00	1262
C5242	24	1.50 (7*0.53)	0.60	0.50	19.20	21.70	1.70	25.50	1396
C5243	30	1.50 (7*0.53)	0.60	0.50	20.80	24.00	1.80	27.60	1867
C5244	40	1.50 (7*0.53)	0.60	0.50	23.70	26.90	1.80	30.50	2357
C5245	2	2.50(7*0.67)	0.60	0.50	8.30	10.10	1.40	12.90	307
C5246	3	2.50(7*0.67)	0.60	0.50	8.80	10.60	1.40	13.40	377

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Reference Standards

BS5308 Part 1	EN 50290-2
BS EN 60228	RoHS directives
BS 7655	IEC60332-1