

Control and Instrumentation Cables

PAS/BS5308 Part 1, Type 1 & 2

PVC Sheath

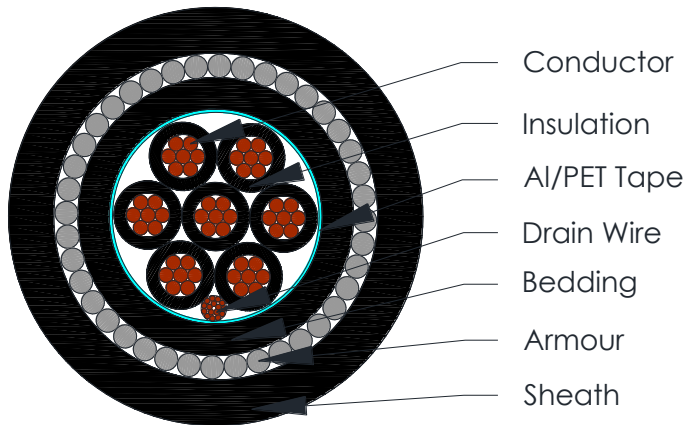


C3285 TO C3301, C3432 TO C3435, C3469, C3572 TO C3581

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	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)	Flame Retardant PVC
Armour (where requested)	Galvanized Steel Wire Armour
Outer Sheath Material	Flame Retardant PVC 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)
0.5	16*0.2	39.7	75	115	1000	25	5000
1.00	1.13	26.5	75	115	1000	25	5000
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)
C3579	37	0.5 (16*0.2)	0.6	0.5	1.50	18.10	394.7
C3580	40	0.5 (16*0.2)	0.6	0.5	1.50	20.20	432.0
C3572	2	1.0 (1.13)	0.6	0.5	0.80	6.10	49.3
C3573	4	1.0 (1.13)	0.6	0.5	0.80	7.10	76.9
C3574	6	1.0 (1.13)	0.6	0.5	0.80	8.00	105.3
C3575	8	1.0 (1.13)	0.6	0.5	0.90	9.30	137.4
C3576	12	1.0 (1.13)	0.6	0.5	1.00	11.8	202.0
C3577	14	1.0 (1.13)	0.6	0.5	1.00	12.4	229.0
C3578	20	1.0 (1.13)	0.6	0.5	1.10	14.3	317.1
C3285	2	1.50 (7*0.53)	0.6	0.5	0.80	7.30	67.6
C3286	4	1.50 (7*0.53)	0.6	0.5	0.90	8.60	113.2
C3469	5	1.50 (7*0.53)	0.6	0.5	0.90	9.40	141.6
C3287	6	1.50 (7*0.53)	0.6	0.5	1.00	9.90	162.6
C3288	8	1.50 (7*0.53)	0.6	0.5	1.00	11.00	208.3
C3289	12	1.50 (7*0.53)	0.6	0.5	1.10	13.90	307.5
C3290	14	1.50 (7*0.53)	0.6	0.5	1.10	14.60	351.9
C3291	20	1.50 (7*0.53)	0.6	0.5	1.30	17.10	512.4

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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)
C3581	40	0.5 (16*0.2)	0.60	0.50	20.20	23.40	1.80	27.00	715
C3292	2	1.50 (7*0.53)	0.60	0.50	7.50	9.30	1.40	12.10	245
C3432	3	1.50 (7*0.53)	0.60	0.50	7.70	9.50	1.40	12.30	301
C3293	6	1.50 (7*0.53)	0.60	0.50	9.90	11.70	1.40	14.50	458
C3294	7	1.50 (7*0.53)	0.60	0.50	10.50	12.30	1.40	15.10	509
C3295	8	1.50 (7*0.53)	0.60	0.50	11.00	12.80	1.40	15.60	558
C3433	12	1.50 (7*0.53)	0.60	0.50	13.60	16.10	1.50	17.80	661
C3296	15	1.50 (7*0.53)	0.60	0.50	15.60	18.10	1.60	21.30	950
C3434	16	1.50 (7*0.53)	0.60	0.50	15.70	18.20	1.60	21.40	1018
C3297	20	1.50 (7*0.53)	0.60	0.50	17.10	19.60	1.70	23.00	1262
C3435	24	1.50 (7*0.53)	0.60	0.50	19.20	21.70	1.70	25.50	1396
C3298	30	1.50 (7*0.53)	0.60	0.50	20.80	24.00	1.80	27.60	1867
C3299	40	1.50 (7*0.53)	0.60	0.50	23.70	26.90	1.80	30.50	2357
C3300	2	2.50(7*0.67)	0.60	0.50	8.30	10.10	1.40	12.90	307
C3301	3	2.50(7*0.67)	0.60	0.50	8.80	10.60	1.40	13.40	377

Reference Standards

BS5308 Part 1	EN 50290-2
BS EN 60228	RoHS directives
BS 7655	IEC60332-3-24