

Flexible Trailing Cables Type 307M (1900/3300V)

BS 6708

CABLE DESCRIPTION

DESCRIPTION

For use with Coalcutters and similar face equipment.

Flexible Tinned Annealed Copper (TAC) Conductors, MEPR Insulated, 3 Copper/Nylon Screened Power Cores Plus 1 Screened Pilot Core, Laid up Around a Flexible TAC Bare Earth Conductor, Sheathed Overall with a Heavy Duty Flame Retardant Elastomeric Compound. The Pilot Unit has 1 MEPR Insulated and Screened Conductor, Insulated/Screened to the same Diameter as the Screened Phase Cores.



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK



Formerly Pirelli Cables

Flexible Trailing Cables Type 307M (1900/3300V)

BS 6708

Description Details

Item	Description	Details
1	Phase conductor	(3 off) TAC Flex Conductor
2	Phase insulation	Coloured Extruded MEPR Cores
3	Phase Core Screen	Composite Copper/Nylon
4	Earth conductor	(1 off) TAC Flex Conductor
5	Pilot conductor	(1 off) TAC Flex Conductor
6	Pilot insulation	Blue Extruded MEPR
7	Pilot screen	Composite Copper/Nylon
8	Lay up	3 Power Cores 1 Pilot Core Laid Uninsulated Earth Co
9	Overall Sheath	Extruded Heavy Duty PCP

Phase Conductor

Cable size mm ²	Number and nom size of conductor mm ²	Conceptual conductor stranding mm	Nominal conductor diameter mm	Diameter over insulation Nom mm	Diameter over copper/ Nylon screen Nom mm
25	3 x 25	196/0.40	6.75	13.10	15.50
35	3 x 35	276/0.40	8.35	14.75	17.10
50	3 x 50	396/0.40	9.40	15.80	18.20
70	3 x 70	360/0.50	11.35	17.80	20.15
95	3 x 95	475/0.50	12.75	19.20	21.60
120	3 x 120	608/0.50	15.10	21.60	23.95

Earth Conductor

Cable size mm ²	Number and nom size of conductor mm ²	Conceptual stranding mm	Nominal conductor diameter mm
25	1 x 25	126/0.40	6.75
35	1 x 25	126/0.40	6.75
50	1 x 35	276/0.40	8.20
70	1 x 50	396/0.40	9.80
95	1 x 50	396/0.40	9.80
120	1 x 70	360/0.50	11.70

Pilot Conductor

Cable size mm ²	Number and nom size of conductor mm ²	Conceptual conductor stranding mm	Nominal conductor diameter mm	Diameter over insulation Nom mm	Diameter over copper/ nylon screen Nom mm
25	1 x 25	196/0.40	6.75	13.10	15.50
35	1 x 35	276/0.40	8.35	14.75	17.10
50	1 x 50	396/0.40	9.40	15.80	18.20
70	1 x 70	360/0.50	11.35	17.80	20.15
95	1 x 95	475/0.50	12.75	19.20	21.60
120	1 x 120	608/0.50	15.10	21.60	23.95

Flexible Trailing Cables Type 307M (1900/3300V)

BS 6708

Cable Details

Cable size mm ²	Over diameter minimum mm	Overall diameter maximum mm	Minimum bending radius mm	Maximum pulling tension Kgf	Approximate cable weight Kg/Km
25	47.4	49.9	399	642	3420
35	51.6	54.6	437	834	4020
50	56.8	59.8	478	1200	5050
70	62.8	65.8	526	1680	6260
95	68.9	72.7	581	2000	7750
120	73.4	77.4	617	2000	9030

Electrical Details

Cable size mm ²	Continuous current rating at 25° Ambient Amps	Intermittent current rating at 25° Ambient Amps	Maximum d.c resistance at 20°C:			Nominal reactance at 50 Hz Ohms/Km	Nominal reactance at 60 Hz Ohms/Km	Minimum ins. resist of powercores at 20°C Megohms.Km	3 Phase volt drop based on full Load current mV/A/Mt
			Power conductor Ohms/Km	Pilot conductor Ohms/Km	4 screens and earth in parallel Ohms/Km				
25	110	130	0.795	0.795	0.45	0.125	0.150	1250	1.69
35	135	155	0.565	0.565	0.45	0.117	0.141	1100	1.21
50	170	210	0.393	0.393	0.31	0.113	0.136	950	0.85
70	205	255	0.277	0.277	0.31	0.108	0.129	820	0.61
95	250	315	0.210	0.210	0.25	0.105	0.126	720	0.48
120	295	360	0.164	0.164	0.25	0.101	0.121	660	0.39

Ordering Information

Cable size mm ²	Reference/Description
25	30-M-651-206-002
35	30-M-651-207-002
50	30-M-651-182-002
70	30-M-651-173-002
95	30-M-651-196-002
120	30-M-651-208-002



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
 TEL 0044 191 490 1547 FAX 0044 477 5371
 TEL 0044 117 977 4647 FAX 0044 977 5582
 WWW.THORNEANDDERRICK.CO.UK



Formerly Pirelli Cables