

CABLE LOOK-UP CHARTS

Cables catalogued to NR/PS/SIG/00005 (was RT/E/PS/00005)

TYPE	CORES	COLOUR	0.75 mm ²	1.15 mm ²	2.5 mm ²
A1	1	Blue	0006/120001		
A1	1	Brown	0006/120002		
A1	1	Red	0006/120003		
A1	1	Orange	0006/120004		
A1	1	Grey	0006/120005		
A1	1	Violet	0006/120006		
A1	1	Black	0006/120007		
A1	1	Black		0006/120008	
A2	1	Black	0006/120020		
A2	1	Blue	0006/120021		
A2	1	Green	0006/120022		
A2	1	Yellow	0006/120023		
A2	1	Black		0006/120024	
A2	1	Blue		0006/120025	
A2	1	Green		0006/120026	
A2	1	Yellow		0006/120027	
A3	2		0006/120040		
A3	4		0006/120041		
A3	6		0006/120042		
A3	10		0006/120043		
A3	14		0006/120044		
A3	36		0006/120045		
A3	48		0006/120046		
A4	2C		0006/120050		0006/120051

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TYPE	CORES	0.75 mm ²	1.5 mm ²	2.5 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²	95 mm ²
B1	1	0006/120059	0006/120060	0006/120061	0006/120062		0006/120063		
B2	2		0006/120081	0006/120082	0006/120083	0006/120113	0006/120084	0006/120085	0006/120086
B2	3			0006/161006	0006/161008	0006/161009	0006/161011		
B2	4	0006/120087	0006/120088	0006/120089					
B2	7	0006/120090	0006/120091	0006/120092					
B2	10	0006/120093	0006/120094	0006/120095					
B2	12	0006/120096	0006/120097	0006/120098					
B2	19	0006/120099	0006/120100	0006/120101					
B2	27	0006/120102	0006/120103	0006/120104					
B2	37	0006/120105	0006/120106	0006/120107					
B2	48	0006/120108	0006/120109	0006/120110					
B2	6x2	0006/120111	0006/120112	0006/120114					
C1	1			0006/120130					
C2	2			0006/120140					
C2	4			0006/120141					
C2	7			0006/120142					
C2	10			0006/120143					
C2	12			0006/120144					
C2	16			0006/120145					
C3(TPWS)	2C+Earth			0006/160086					

TYPE	CORE	4 mm ²	Project
B2	2	0006/161005	Manufactured for Manchester South Ansaldo System only
B2	3C	0006/161007	Manufactured for Manchester South Ansaldo System only

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TYPE	CORES	0.75 mm ²	1.5 mm ²	2.5 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²	95 mm ²
D1	1	0006/120211	0006/120212	0006/120213	0006/120214		0006/120215		
D2	2		0006/120216	0006/120217	0006/120218	0006/120226	0006/120219	0006/120220	0006/120221
D2	4	0006/120222	0006/120223	0006/120224	0006/120225				
D2	7	0006/120227	0006/120228	0006/120229					
D2	10	0006/120230	0006/120231	0006/120232					
D2	12	0006/120233	0006/120234	0006/120235					
D2	19	0006/120236	0006/120237	0006/120210					
D2	27	0006/120238	0006/120239	0006/120240					
D2	37	0006/120241	0006/120242	0006/120243					
D2	48	0006/120244	0006/120245	0006/120246					
D2	6x2	0006/120247	0006/120248	0006/120249					
E1	1			0006/120172					
E2	2			0006/120170					
E2	4			0006/120171					
E2	7			0006/120173					
E2	10			0006/120174					
E2	12			0006/120175					
E2	16			0006/120176					
E3(TPWS)	2C+Earth			0006/160090					

Fibre Optic cable to Spec NR/PS/TEL/00014

P/S = Polyethylene Sheathed ZHLS/S = Zero Halogen Low Smoke Sheathed ARM = Armoured DUCT = Cable in buried ducts
 DIISAC = Double Insulated Super Armoured

Fibre's per Tube	P/S	P/S DUCT	P/S ARM	ZHLS/S	ZHLS/S ARM	DIISAC
24		0006/169053	0006/169063		0006/169073	0006/169083
48	0006/169003	0006/169013	0006/169023	0006/169033	0006/169043	

0.75 mm² 1.5 mm² 2.5 mm² 10 mm² 16 mm² 35 mm² 70 mm² 95 mm²

Level 2 Signalling Power Cable Copper XLPE/FGT/PVC

CORES	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²
2	0006/140002	0006/185971	0006/185972	0006/185973	0006/185974	0006/185975	0006/185976	0006/185977	0006/185978
3	0006/140004	0006/140005	0006/140006	0006/140007	0006/140008	0006/140009	0006/140010	0006/140011	0006/140012
4	0006/140003	0006/147004	0006/147005	0006/147006	0006/147007	0006/147008	0006/147009	0006/147010	0006/147011

Copper XLPE/FGT/LSZH

CORES	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²
2	0006/140003	0006/185979	0006/185980	0006/185981	0006/185982	0006/185983	0006/185984	0006/185985	0006/185986
3	0006/140013	0006/140014	0006/140015	0006/140016	0006/140017	0006/140018	0006/140019	0006/140020	0006/140021
4	0006/147012	0006/147013	0006/147014	0006/147015	0006/147016	0006/147017	0006/147018	0006/147019	0006/147020

Aluminium XLPE/FGT/PVC

CORES	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²
2	0006/185987	0006/185988	0006/185989	0006/185990	0006/185991	0006/185992	0006/185993
3	0006/140022	0006/140023	0006/140024	0006/140025	0006/140026	0006/140027	0006/140028
4	0006/147021	0006/147022	0006/147023	0006/147024	0006/147025	0006/147026	0006/147027

Aluminium XLPE/FGT/LSZH

CORES	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²
2	0006/185994	0006/185995	0006/185996	0006/185997	0006/185998	0006/185999	0006/186000
3	0006/140029	0006/140030	0006/140031	0006/140032	0006/140033	0006/140034	0006/140035
4	0006/147028	0006/147029	0006/147030	0006/147031	0006/147032	0006/147033	0006/147034

UNIT TWIN COPPER TELECOMMS CABLE for SPEC NR/PS/TEL/00015

P/S = Polyethylene Sheathed ZHLS/S = Zero Halogen Low Smoke Sheathed ARM = Armoured

Conductor	Pair	P/S	P/S ARM	ZHLS/S	ZHLS/S ARM
0.63mm	2	0006/168001	0006/168011	0006/168021	0006/168031
	5	0006/168002	0006/168012	0006/168022	0006/168032
	10	0006/168003	0006/168013	0006/168023	0006/168033
	20	0006/168004	0006/168014	0006/168024	0006/168034
	30	0006/168005	0006/168015	0006/168025	0006/168035
	50	0006/168006	0006/168016	0006/168026	0006/168036
	75	0006/168007	0006/168017	0006/168027	0006/168037
	100	0006/168008	0006/168018	0006/168028	0006/168038

Conductor	Pair	P/S	P/S ARM	ZHLS/S	ZHLS/S ARM
0.90mm	2	0006/168051	0006/168061	0006/168071	0006/168081
	5	0006/168052	0006/168062	0006/168072	0006/168082
	10	0006/168053	0006/168063	0006/168073	0006/168083
	20	0006/168054	0006/168064	0006/168074	0006/168084
	30	0006/168055	0006/168065	0006/168075	0006/168085
	50	0006/168056	0006/168066	0006/168076	0006/168086
	75	0006/168057	0006/168067	0006/168077	0006/168087
	100	0006/168058	0006/168068	0006/168078	0006/168088

PA05/I102 Siemens Project, Dorset Coast Resignalling

The cables shall only be used as external signalling cables interconnecting the SIMIS-W interlocking system
Concentric Multicore Signalling Cable, (H95, H115 and H145 denote effective capacitance "nF/km")

Conductor	Code	Cores	Cat No
0.9mm	H115	4	0006/166500
	H115	7	0006/166501
	H115	10	0006/166502
	H115	14	0006/166503
	H115	20	0006/166504
	H115	30	0006/166505
	H115	40	0006/166506
	H115	50	0006/166507
	H115	60	0006/166508
	H115	80	0006/166509
	H115	100	0006/166510

Conductor	Code	Cores	Cat No
1.8mm	H145	4	0006/166535
	H145	7	0006/166536
	H95	10	0006/166537
	H145	10	0006/166538
	H145	14	0006/166539
	H95	14	0006/166540
	H145	20	0006/166541
	H95	20	0006/166542
	H145	30	0006/166543
	H95	30	0006/166544
	H145	40	0006/166545
	H145	50	0006/166546
	H95	50	0006/166547
	H145	60	0006/166548
	H145	80	0006/166549
	H145	100	0006/166550

Conductor	Code	Cores	Cat No
1.4mm	H145	4	0006/166515
	H145	7	0006/166516
	H95	10	0006/166517
	H145	10	0006/166518
	H145	14	0006/166519
	H95	14	0006/166520
	H145	20	0006/166521
	H95	20	0006/166522
	H145	30	0006/166523
	H95	30	0006/166524
	H145	40	0006/166525
	H145	50	0006/166526
	H95	50	0006/166527
	H145	60	0006/166528
	H145	80	0006/166529
	H145	100	0006/166530

Conductor	Quads	Cat No
0.9mm Star Quad Signalling Cable	1	0006/166560
	3	0006/166561
	5	0006/166562
	7	0006/166563
	10	0006/166564
	14	0006/166565
	20	0006/166566
30	0006/166567	

Conductor	Quads	Cat No
1.4mm Star Quad Signalling Cable	1	0006/166570
	3	0006/166571
	5	0006/166572
	7	0006/166573
	10	0006/166574
	14	0006/166575
	20	0006/166576
30	0006/166577	

AXLE COUNTER CABLE

Application - Axle Counter cable is used to connect the various elements of the AzLM Axle Counter System. It is suitable for installation in trackside cable troughing, buried duct route and installed in open air on the ballast and clipped to sleepers as required. Quad types XQS and XQZ are used to connect the EAK Junction box or termination to the EAK (Mushroom) and Multi Twisted pair types XPS and XPZ are used to connect EAK to the ACE (Axle Counter Evaluator) equipment.

Standards - NR/L2/SIG/30060

Technical Data

Conductor

Class I solid tinned copper conductor to BS EN 60228:2005 (previously BS6360)

Insulation

PE (Polyethylene) Type 03 to BS6234

Water Blocking Compound

Petroleum jelly (XPS and XQS types only)

Anti-Rodent Protection

Glass fibre weave

Minimum Bending Radius

7.5 x overall diameter

Moisture Barrier

Aluminium/polymer laminate tape

Sheath

PE (Polyethylene) Type 03C to BS6234 or LSZH (Low Smoke Zero Halogen)

Sheath Colour

Black

Temperature Rating

-25°C to +85°C

Type XPS Multi-twisted-pair Cables

Rail Catalogue Number	No. of Pairs x Conductor Diameter # x mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
0006/170007	2 x 0.9	13.8	215
0006/170008	10 x 0.9	24.7	530
0006/170009	12 x 0.9	26.4	584
0006/170034	19 x 0.9	31.4	810
0006/170035	24 x 0.9	34.5	982
0006/170036	2 x 1.4	16.4	320
0006/170037	10 x 1.4	31.4	910
0006/170038	12 x 1.4	33.8	1016
0006/170039	19 x 1.4	40.8	1460
0006/170040	24 x 1.4	45.0	1787

Type XPZ Multi-twisted-pair Cables

Rail Catalogue Number	No. of Pairs x Conductor Diameter # x mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
0006/170023	2 x 0.9	13.8	200
0006/170024	10 x 0.9	24.7	424
0006/170025	12 x 0.9	26.4	468
0006/170026	19 x 0.9	31.4	632
0006/170027	24 x 0.9	34.5	746
0006/170028	2 x 1.4	16.4	314
0006/170029	10 x 1.4	31.4	807
0006/170030	12 x 1.4	33.8	909
0006/170031	19 x 1.4	40.8	1284
0006/170032	24 x 1.4	45.0	1548

Type XQS Star-quad Cables

Rail Catalogue Number	Quad x Conductor Diameter # x mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
0006/170021	1 x 0.9	11.8	141
0006/170050	1 x 1.4	13.8	204

Type XQZ Star-quad Cables

Rail Catalogue Number	Quad x Conductor Diameter # x mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
0006/170053	1 x 0.9	11.8	173
0006/170033	1 x 1.4	13.8	225

AXLE COUNTER CABLE- Continued

Electrical Characteristics

Conductor Size mm	Maximum Attenuation at 40kHz dB	Maximum Mutual Capacitance nF/km (core to core)	Nominal Characteristic Impedance at 90kHz Ohms/km*
0.9	2.6	45	135
1.4	2.0	50	135

Pair	Core Colours	
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Grey
11	Yellow	Blue
12	Yellow	Orange
13	Yellow	Green
14	Yellow	Brown
15	Yellow	Grey
16	Violet	Blue
17	Violet	Orange
18	Violet	Green
19	Violet	Brown
20	Violet	Grey
21	Turquoise	Blue
22	Turquoise	Orange
23	Turquoise	Green
24	Turquoise	Brown

Type XQS and XQZ Star-quad Cables

Pair	Core Colours	
	a-Core	b-Core
1	White	Orange
2	Black	Green