

# K23 Subway Signaling Cables

## LSZH/HFFR Sheath

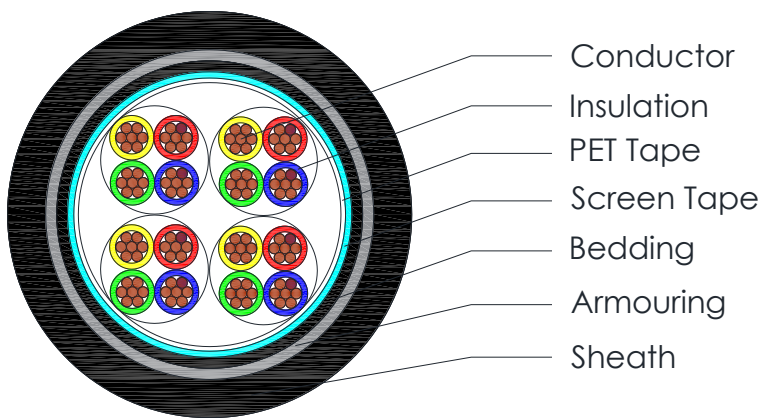


### C I 5277 TO C I 530 I

#### Applications

The cables are designed for remote control and teletransmission in underground railway networks. The cables can be laid in channel, cable tray, or on hook supports, along suburban railway lines electrified at maximum 1500V DC.

#### Cross Section Drawing



#### Design

Unit	Properties
Conductor	Plain copper wire
Insulation	Solid Polyethylene
Twinning	Four conductors are twisted to form a star quad. For 1 & 4 pair cables, conductors shall be twisted in pairs.
Wrapping	PET Tape
Screen	Al-PET Tape
Bedding	Halogen Free Flame Retardant (LSZH-HFFR)
Armour	Two helically applied steel tapes
Outer Sheath Material	Halogen Free Flame Retardant (LSZH-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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### C15277 TO C15301

#### Electrical Characteristics at 20°C

Conductor Size(mm)	Max. DCR (Ohm/km)	Max. Mutual Capacitance (pF/m) at 1KHz (AC)	Max. Mutual Capacitance unbalance (pF/500m) at 1KHz		Dielectric Strength (DC voltage 1min)		Operating Voltages (V)	Max. Permissible Current (A)	Min Insulation Resistance @500V DC (3min) (M.O hm/km)
			K1 (side to side)	K9-12(quad to quad)	Conductor to Conductor	Conductor to Screen			
0.60	64.0	57.5	435	220	1500	1500	200	0.35	5000
0.80	36.0	57.5	435	220	2000	1500	400	0.63	5000
1.00	23.0	57.5	435	220	3000	1500	500	1.0	5000
1.20	16.0	57.5	435	220	3000	1500	750	1.4	5000

#### Constructional Information

P/N	Number of Pairs	Conductor Diameter (mm)	Nom. Insulation Diameter (mm)	Nom. Thickness of Bedding (mm)	Nom. Thickness of Sheath (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C15277	2	0.60	0.96	1.0	1.0	10.5	130
C15278	4	0.60	0.96	1.0	1.0	14.0	171
C15279	8	0.60	0.96	1.0	1.0	16.5	215
C15280	14	0.60	0.96	1.0	1.2	17.5	290
C15281	20	0.60	0.96	1.0	1.2	18.5	350
C15282	28	0.60	0.96	1.0	1.4	21.0	441
C15283	2	0.80	1.27	1.0	1.0	11.5	155
C15284	4	0.80	1.27	1.0	1.0	15.5	216
C15285	8	0.80	1.27	1.0	1.2	17.5	298
C15286	14	0.80	1.27	1.0	1.4	20.5	412
C15287	20	0.80	1.27	1.0	1.4	23.0	512
C15288	28	0.80	1.27	1.0	1.4	24.5	637
C15289	2	1.00	1.80	1.0	1.0	9.40	195
C15290	4	1.00	1.80	1.0	1.2	17.5	298
C15291	8	1.00	1.80	1.0	1.4	20.5	431
C15292	14	1.00	1.80	1.0	1.4	23.5	587
C15293	20	1.00	1.80	1.0	1.6	25.0	762
C15294	28	1.00	1.80	1.0	1.6	29.0	981
C15295	1	1.20	2.00	1.0	1.2	14.0	188
C15296	2	1.20	2.00	1.0	1.2	14.5	230
C15297	4	1.20	2.00	1.0	1.4	20.0	357
C15298	8	1.20	2.00	1.0	1.4	24.0	509
C15299	14	1.20	2.00	1.0	1.4	25.0	710
C15300	20	1.20	2.00	1.0	1.6	29.0	950
C15301	28	1.20	2.00	1.0	1.6	31.5	1213

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### Reference Standards

BS EN 60228	EN 50290-2
IEC 61034	IEC 60754-1&-2
IEC 60332-3-24	RoHS directives