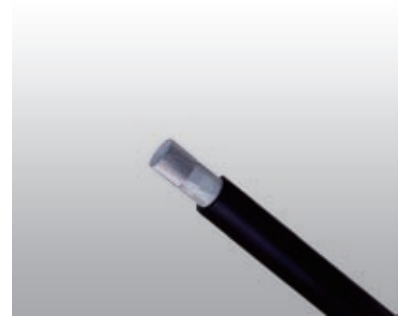




## 300V DC Negative Traction Cables

### Applications

These DC power cables are used for urban railways for 1500V DC traction power system with feedback current and return current, suitable for fixed installation. The cables are suitable for installations in ducts, tunnels, and cable troughs or on the cable bridges etc.



### Standard

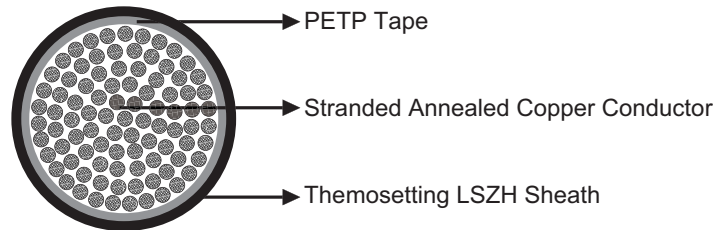
- IEC60092
- BS 7655
- IEC60502
- BS 6883 Type 657 SW4

### Construction

- Conductor: Class 2 stranded annealed bare copper conductors to BS EN 60228: 2005 (previously BS 6360).

- Core Wrapping: PETP (Polyethylene Terephthalate).

- Sheath: Thermosetting LSZH compound SW4 or LRS1 to BS 7655 / ICEA T-33-655 with enhanced oil resistance, and minimum tear resistance.



### Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm <sup>2</sup>	70	95	120	150	185	240	300	400	500
Maximum DC Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817	0.0654	0.0495	0.0391
Minimum Insulation Resistance	MΩ.km	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Conductor Short Circuit Current 1s	kA	10.0	13.5	17.1	21.4	26.4	34.3	42.9	57.2	71.5
Voltage Rating	KV	0.3								

### Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD
- Temperature Range: -40°C to +90°C (during operation); -25°C to +60°C (during installation)

➤ **Dimensions and Weight**

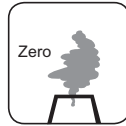
Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. × mm <sup>2</sup>	No. & Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km	Polarity
RF6883-ES05Z1-U-300N-1G70	1×70	19/2.14	4.0	19.4	1055	Negative
RF6883-ES05Z1-U-300N-1G95	1×95	19/2.52	4.0	20.7	1307	Negative
RF6883-ES05Z1-U-300N-1G120	1×120	37/2.03	4.0	22.6	1598	Negative
RF6883-ES05Z1-U-300N-1G150	1×150	37/2.25	4.0	24.3	1913	Negative
RF6883-ES05Z1-U-300N-1G185	1×185	37/2.52	4.0	26.3	2274	Negative
RF6883-ES05Z1-U-300N-1G240	1×240	61/2.25	4.0	29.1	2893	Negative
RF6883-ES05Z1-U-300N-1G300	1×300	61/2.52	4.0	32.3	3530	Negative
RF6883-ES05Z1-U-300N-1G400	1×400	61/2.85	4.0	36.3	4532	Negative
RF6883-ES05Z1-U-300N-1G500	1×500	91/2.65	4.0	40.3	5684	Negative
RF6883-ES05Z1-U-300N-1G630	1×630	127/2.52	4.0	42.3	6400	Negative
RF6883-ES05Z1-U-300N-1G800	1×800	127/2.85	4.0	46.5	8094	Negative



**Flame Retardant**  
NF C32-070-2.1(C2)  
IEC 60332-1/EN 50265-2-1



**Fire Retardant**  
NF C32-070-2.2(C1)  
IEC 60332-3/EN50266



**Zero Halogen**  
IEC 60754-1/NF C20-454  
EN 50267-2-1



**Low Smoke Emission**  
IEC 61034/NFC20-902  
EN 50268/NF C32-073



**Low Corrosivity**  
EN 50267-2-2/NF C32-074  
IEC 60754-2/NF C20-453



**Low Toxicity**

