



TYPE E3 Railway Signalling Cable

Applications

The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

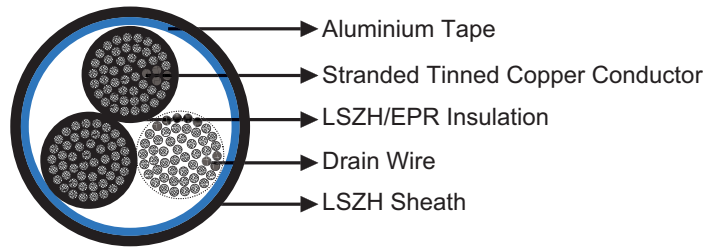


Standards

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductor: Tinned stranded copper, according to IEC 60228 class 5& BS 6360.
- Insulation: LSZH or EPR Type GP4 to BS 7655.
- Screen: Aluminium tape.
- Drain Wire: 2.5 mm² flexible tinned copper.
- Sheath: LSZH.



Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	2.5
Maximum DC Conductor Resistance	Ω/km	8.21
Minimum Noise Reduction	dB	60
Voltage Rating	KV	0.65/1.1
Nominal Insulation Thickness	mm	1.05

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25°C to +85°C (during operation); -10°C to +85°C (during installation)



Dimensions and Weight

Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. x mm ²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type E3					
RS/E3-3G(St)H-1P2.5S	1 x 2 x 2.5	50/0.25	3.8	15.0/20.0	410

Routine test voltage: 2.5kV for 5 minutes



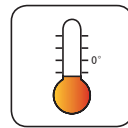
Impact Resistant



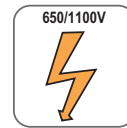
Highly Flexible



Oil Resistant



Weather Resistant



Rated Voltage



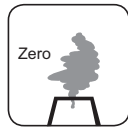
Laid In Ducts



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

