TYPE E1 & E2 Railway Signalling Cable

Applications

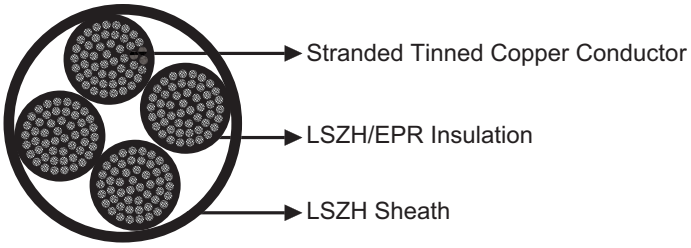
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

Standards

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

Construction

- Conductors: Tinned stranded copper, class 5 according to IEC 60228 & BS 6360.
- Insulation: LSZH or EPR Type GP4 to BS 7655.
- Outer Sheath: LSZH.



Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	2.5
Maximum DC Conductor Resistance	Ω/km	8.21
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℃ to +85℃ (during operation); -10℃ to +85℃ (during installation)

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
		Type E1			
RS/E1-3GH-1G2.5	1×2.5	50/0.25	3.8	11.2/14.0	200
		Type E2			
RS/E2-3GH-2G2.5	2×2.5	50/0.25	3.8	14.9/18.8	380
RS/E2-3GH-4G2.5	4×2.5	50/0.25	3.8	16.4/20.9	470
RS/E2-3GH-7G2.5	7×2.5	50/0.25	3.8	18.7/23.7	625
RS/E2-3GH-10G2.5	10×2.5	50/0.25	3.8	22.5/28.6	940

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
RS/E2-3GH-12G2.5	12×2.5	50/0.25	3.8	23.2/29.3	980
RS/E2-3GH-16G2.5	16×2.5	50/0.25	3.8	25.3/32.0	1200
RS/E2-3GH-1P2.5S	1×2×2.5	50/0.25	3.8	15.0/20.0	341

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