



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.

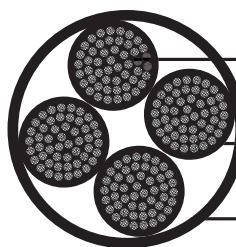


Standards

- 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.



Stranded Tinned Copper Conductor

LSZH/EPR Insulation

LSZH Sheath

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	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°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. ×mm ²	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. × mm ²	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



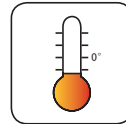
Impact Resistant



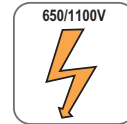
Highly Flexible



Oil Resistant



Weather Resistant



Rated Voltage



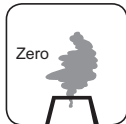
Laid In Ducts



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/EN 50266



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

