TYPE A1, A2 & A3 Railway Signalling Cable

Applications

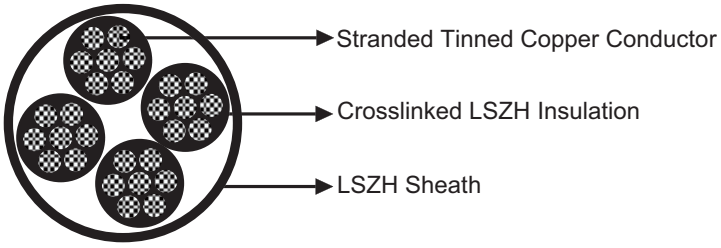
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and are suitable for installation in ducts.

Standards

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

Construction

- Conductors: Tinned stranded copper, class 2 according to IEC 60228 & BS 6360.
- Insulation: LSZH crosslinked.
- Core Wrapping: Plastic tape(s) with overlapping.
- Sheath: LSZH (for types A2 & A3 only).



Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.75	1.15
Maximum Conductor DC Resistance	Ω/km	24.8	17.3
Voltage Rating	KV	0.65/1.1	
Nominal Insulation Thickness	mm	0.85	0.85

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 A1(without sheath)					
RS/A1-H-1G0.75(BL)	1x0.75(blue)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(BR)	1x0.75(brown)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(RD)	1x0.75(red)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(OR)	1x0.75(orange)	7/0.37	-	2.7/3.2	16

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/A1-H-1G0.75(GR)	1x0.75(green)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(VI)	1x0.75(violet)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75	1x0.75(black)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G1.15	1x1.15(black)	16/0.30	-	2.9/3.6	21
Type A2(with sheath)					
RS/A2-3GH-1G0.75	1x0.75	7/0.37	0.7	4.0/5.0	30
RS/A2-3GH-1G1.15	1x1.15	16/0.30	0.7	4.3/5.3	35
Type A3(with sheath)					
RS/A3-3GH-2G0.75	2x0.75	7/0.37	0.9	6.7/8.8	67
RS/A3-3GH-4G0.75	4x0.75	7/0.37	1.0	8.0/10.4	108
RS/A3-3GH-6G0.75	6x0.75	7/0.37	1.1	9.7/12.5	160
RS/A3-3GH-10G0.75	10x0.75	7/0.37	1.2	12.6/16.1	259
RS/A3-3GH-14G0.75	14x0.75	7/0.37	1.3	13.8/17.7	495
RS/A3-3GH-36G0.75	36x0.75	7/0.37	1.6	21.6/26.9	752
RS/A3-3GH-48G0.75	48x0.75	7/0.37	1.6	24.3/30.7	963


Impact Resistant


Highly Flexible


Oil Resistant

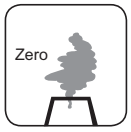
Weather Resistant

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