



TYPE B1 & B2 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.

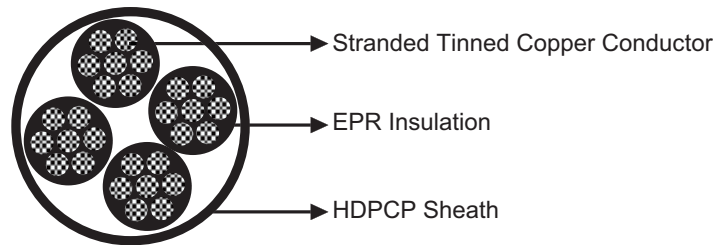


Standards

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

Construction

- Conductors: Tinned stranded copper, class 2 according to IEC 60228 & BS 6360.
- Insulation: EPR Type GP4 to BS 7655.
- Core Wrapping: Plastic tape(s) with overlapping.
- Sheath: HDPCP Type RS2 to BS 7655.



Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	0.75	1.5	2.5	10.0	16.0	35.0	70.0	95.0
Maximum DC Conductor Resistance	Ω/km	24.8	12.2	7.56	1.84	1.16	0.529	0.27	0.195
Voltage Rating	KV	0.65/1.1							
Nominal Insulation Thickness	mm	0.85	0.8	0.8	1.0	1.0	1.2	1.4	1.6

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 B1					
RS/B1-3G5G-1G0.75	1×0.75	7/0.37	2.0	6.5/8.1	28
RS/B1-3G5G-1G1.5	1×1.5	7/0.53	2.0	6.8/8.5	31
RS/B1-3G5G-1G2.5	1×2.5	7/0.67	2.0	7.2/8.9	34

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
RS/B1-3G5G-1G10	1x10.0	7/1.35	2.0	9.4/11.8	205
RS/B1-3G5G-1G35	1x35.0	19/1.53	2.0	12.9/16.1	495
Type B2					
RS/B2-3G5G-2G1.5	2x1.5	7/0.53	2.0	9.4/12.1	135
RS/B2-3G5G-2G2.5	2x2.5	7/0.67	2.0	10.5/13.1	170
RS/B2-3G5G-2G10	2x10.0	7/1.35	2.0	15.0/18.7	443
RS/B2-3G5G-2G16	2x16.0	7/1.70	2.0	16.7/20.9	625
RS/B2-3G5G-2G35	2x35.0	19/1.53	2.2	22.3/27.8	1232
RS/B2-3G5G-2G70	2x70.0	19/2.14	2.4	28.8/36.0	2053
RS/B2-3G5G-2G95	2x95.0	19/2.52	2.6	33.2/41.5	2968
RS/B2-3G5G-4G0.75	4x0.75	7/0.37	2.0	10.2/12.8	140
RS/B2-3G5G-7G0.75	7x0.75	7/0.37	2.0	11.8/14.7	214
RS/B2-3G5G-10G0.75	10x0.75	7/0.37	2.0	14.4/18.0	280
RS/B2-3G5G-12G0.75	12x0.75	7/0.37	2.0	14.8/18.5	321
RS/B2-3G5G-19G0.75	19x0.75	7/0.37	2.0	17.0/21.3	451
RS/B2-3G5G-27G0.75	27x0.75	7/0.37	2.0	20.1/25.1	602
RS/B2-3G5G-37G0.75	37x0.75	7/0.37	2.2	22.7/28.4	799
RS/B2-3G5G-48G0.75	48x0.75	7/0.37	2.2	25.7/32.2	973
RS/B2-3G5G-4G1.5	4x1.5	7/0.53	2.0	10.9/13.7	217
RS/B2-3G5G-7G1.5	7x1.5	7/0.53	2.0	12.6/15.8	296
RS/B2-3G5G-10G1.5	10x1.5	7/0.53	2.0	15.6/19.4	401
RS/B2-3G5G-12G1.5	12x1.5	7/0.53	2.0	16.0/20.0	437
RS/B2-3G5G-19G1.5	19x1.5	7/0.53	2.0	18.5/23.1	615
RS/B2-3G5G-27G1.5	27x1.5	7/0.53	2.2	22.2/27.8	856
RS/B2-3G5G-37G1.5	37x1.5	7/0.53	2.2	25.1/31.4	1126
RS/B2-3G5G-48G1.5	48x1.5	7/0.53	2.4	28.1/35.1	1494
RS/B2-3G5G-4G2.5	4x2.5	7/0.67	2.0	11.9/14.8	260
RS/B2-3G5G-7G2.5	7x2.5	7/0.67	2.0	13.8/17.2	370
RS/B2-3G5G-10G2.5	10x2.5	7/0.67	2.0	17.1/21.3	520
RS/B2-3G5G-12G2.5	12x2.5	7/0.67	2.0	17.6/22.0	599
RS/B2-3G5G-19G2.5	19x2.5	7/0.67	2.0	20.4/25.5	835
RS/B2-3G5G-27G2.5	27x2.5	7/0.67	2.2	24.6/30.7	1232
RS/B2-3G5G-37G2.5	37x2.5	7/0.67	2.4	27.8/34.7	1623
RS/B2-3G5G-48G2.5	48x2.5	7/0.67	2.6	31.2/39.0	2032
RS/B2-3G5G-6P0.75S	6x2x0.75	7/0.37	2.0	19.7/24.6	372



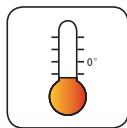
Impact Resistant



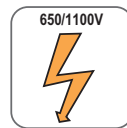
Highly Flexible



Oil Resistant



Weather Resistant



Rated Voltage



Laid In Ducts

