



NR/PS/SIG/00005 Type A1/A2/A3 rail cable

NR Type A1 / A2 / A3

Network Rail Type A1 / A2 / A3 Unarmoured

UK Network Rail NR/PS/SIG/00005 650/1100 V EPR/PCP unarmoured trackside signalling



NR/PS/SIG/00005 (BR 879)

Type A1 (1C), A2 (2C) & A3 (MC)

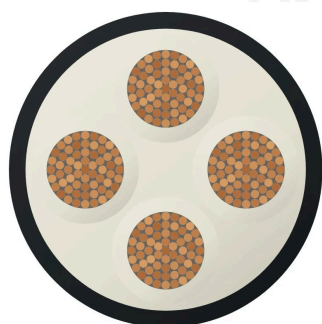
650/1100 V · EPR (GP4) / PCP (EM2)

Application

UK Network Rail trackside signalling and point-heater power feeder cable (NR Type A1 single-core, Type A2 two-core, Type A3 multicore) built to NR/PS/SIG/00005 (formerly BR 879) with Class 2/5 tinned copper conductors, +85/+90 °C EPR (GP4) insulation.

Typical uses: UK Network Rail 650 V Class II Signalling Power, Lineside Location Cases (LOCs) & Relocatable Equipment (REBs), Track Switch Point Heaters & Point Machines, Metro, Light Rail & Mainline Signalling Renewals

Construction



Cross-section, not to scale

- 1 Stranded tinned annealed copper (Class 2 or Class 5)
- 2 Ethylene Propylene Rubber (EPR — BS 7655 Type GP4)
- 3 Non-hygroscopic elastomeric fillers & binder tape
- 4 Heavy-duty Polychloroprene (PCP — BS 7655 Type EM2)

Technical data

Typical values

Rated voltage (U ₀ /U)	650/1,100 V AC (50 Hz) / DC	Routine AC spark & water-tank HV test	3.5 kV AC rms for 5 minutes in water bath + IR verification
Max. conductor DC resistance @ 20 °C	Per BS EN 60228 Class 2 / Class 5 tinned copper	Operating temperature range	–25 °C (–40 °C fixed) to +85 °C / +90 °C conductor · +250 °C short-circuit
Thermal cycling & overload stability	Verified thermal ageing and short-circuit withstand per standard	Construction classification	Type A (Unarmoured EPR/PCP) · cf. Type B (Armoured) & Type C (CSP)
Minimum bending radius	6 × OD (fixed in troughing) · 8 × OD (pulling)	Flame, oil & chemical resistance	BS EN 60332-1-2 flame retardant · BS 7655 EM2 mineral oil & weather
Environmental & chemical durability	Resistant to moisture, industrial fluids and service ageing	Standards	Network Rail NR/PS/SIG/00005 (supersedes RT/E/PS/00005 & BR 879)

Sizes

11 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Voltage	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	In trough A	Min. bend R mm
NR Type A1 (1-Core) & Type A2 (2-Core) 650/1100 V Signalling Power Feeders 9 sizes							
☐ NR Type A1 1×25 mm ²	1×25 mm ² (Type A1)	650/1100 V	12.2	240	345	135	73
☐ NR Type A1 1×50 mm ²	1×50 mm ² (Type A1)	650/1100 V	15.0	480	610	210	90
☐ NR Type A2 2×4 mm ²	2×4 mm ² (Type A2)	650/1100 V	13.5	77	235	42	81
☐ NR Type A2 2×10 mm ²	2×10 mm ² (Type A2)	650/1100 V	17.2	192	415	75	103
☐ NR Type A2 2×16 mm ²	2×16 mm ² (Type A2)	650/1100 V	19.6	307	580	100	118
☐ NR Type A2 2×25 mm ²	2×25 mm ² (Type A2)	650/1100 V	23.4	480	860	132	140
☐ NR Type A2 2×35 mm ²	2×35 mm ² (Type A2)	650/1100 V	25.8	672	1,110	162	155
☐ NR Type A2 2×70 mm ²	2×70 mm ² (Type A2)	650/1100 V	33.2	1,344	1,980	245	199
☐ NR Type A2 2×120 mm ²	2×120 mm ² (Type A2)	650/1100 V	41.5	2,304	3,260	340	249
NR Type A3 (Multi-Core) 650/1100 V Signalling & Point Control Cables 2 sizes							
☐ NR Type A3 4×4 mm ²	4×4 mm ² (Type A3)	650/1100 V	16.0	154	365	36	96
☐ NR Type A3 12×2.5 mm ²	12×2.5 mm ² (Type A3)	650/1100 V	21.8	288	690	20	131

– Full PADS catalogue coverage includes Type B1/B2/B3 (armoured) and Type C1/C2/C3 (HOFR/CSP) variants.

Standards and approvals

- ✓ Network Rail NR/PS/SIG/00005 (BR 879) Compliant
- ✓ BS 7655 GP4 (EPR) & EM2 (PCP) Certified
- ✓ UKCA, CE & RoHS 2 Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/network-rail-type-a1-a2-a3-unarmoured-trackside-signalling-power-feeder-cable



Typical values for this cable type, based on NR/PS/SIG/00005 (BR 879) / BS 7655 / BS EN 60228. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.