

Railway Cables

Single Core and Multi Core Power and Control Cables designed for railway rolling stock, traction & metro applications (EN 50264-3-1 & EN 50264-3-2)

Offering exceptional flame resistance, durability and EMC compatibility, these cables are ideal for fixed installations in locomotives, metros & EMUs.

EN 50264-3-1 Single Core Cables

Application

: Used for power transmission, controlling in various application in Railway Rolling Stock (Locomotives, Metros, EMU, MEMU)

They are suitable for use in confined spaces due to their reduced bending radius.

They can withstand harsh operating conditions, including exposure to oil, ozone and wide temperature fluctuations.

The conductors are rated for continuous operation at temperatures 90° C (Optional: 120° C)

Advantages

: Halogen-free, fire safety by reducing flame spread, smoke and toxic gas emissions.

They are resistant to oils, fuels and ozone, ensuring durability and reliable performance even when exposed to harsh chemicals.

They can withstand mechanical stresses like vibration and impact, which are common in railway environments.

Construction:

Single Core Cables

Component	0.6/1 KV (Unsheathed) M	1.8/3 KV (Unsheathed) M	1.8/3 KV (Sheathed) MM	3.6/6 KV (Sheathed) MM
Size (sq.mm)	1.0 sq.mm to 400 sq.mm	1.5 sq.mm to 400 sq.mm	1.5 sq.mm to 400 sq.mm	2.5 sq.mm to 400 sq.mm
Operating temperature	- 40° C to +90° C / +120° C			
Flexible Tinned Coated Annealed Copper Conductor (Class 5)	✓	✓	✓	✓
Conductor screening	✗	✗	✗	✓
Separator Tape	(Optional)	(Optional)	(Optional)	✗
Insulation (Type EI 106/107/108/109/110)	✓	✓	✓	✓
Separator Tape	✗	✗	(Optional)	(Optional)
Sheath (Type EM 101/102/103/104)	✗	✗	✓	✓
Test Voltage	3.5 KV for 5 min	6.5 KV for 5 min	6.5 KV for 5 min	11 KV for 5 min

✓ = Included | ✗ = Not Included | (Optional) = May be included as per specification or customer request



Key features & Fire Safety : IEC 60332-1-2 – Flame Retardant

IEC 60754-1/2 – Corrosivity of Combustion of gases

IEC 61034-2 – Low Smoke Emission

EN 45545-2 HL-2/HL-3 – Fire behavior of the Cable



Fire retardant



Good Chemical Resistance



Good Resistance to UV, humidity and ozone



High Flexible



Halogen Free



Low Corrosivity of combustion gases



Low toxicity



Operating temp



Screened Versions