

Railway Cables

Thin-Walled Electron Beam Irradiated Flexible Elastomeric Cables with copper conductor. (EDTS 132, REV-C)

Flexible copper cables with E-beam cross-linking, designed for passenger coaches, featuring thin walled insulation, low chemical residue and Limited Fire Hazard properties with minimum flame spread, smoke and toxic emissions.

Application : For Coaching Stock Applications. Suitable for use in power and control circuits for passenger coaches, AC/DC EMU, BG AC EMU and MEMU coaching stock. UIC cables are used in modern railway applications to ensure safe and reliable communication and control applications

Advantages

Enhanced Fire Safety : Limited fire hazard type with low smoke and toxicity
EMC Compatibility : Ensures very good EMC compatibility for screened cables
Extreme Durability : Resistant to high temperatures, mechanical stress and harsh chemicals
Space-Efficient Design : Thin-walled construction for easy & compact installation
Reliable Performance : Tinned copper conductors ensure efficient power and signal transmission
Resistance to mineral oil, diesel, fluids and chemicals

Construction:

Component	Data Sheet-1	Data Sheet-2	Data Sheet-3	Data Sheet-4	Data Sheet-5	Data Sheet-7
Voltage Rating	1.8/3.0 KV	600/1000 V	600/1000 V	600/1000 V	300/300 V	600/1000 V
Operating temperature	- 40° C to +120° C					
Core & Cable type	Single Core Unscreened	Single Core Unscreened	Multi Core Unscreened	Multi Core Screened	UIC Screened	Multi Core Unscreened
Circular Annealed Tinned Copper Conductor (120° C) (Class 5)	✓	✓	✓	✓	✓	✓
Insulation (EBXL EPDM)	✓	✓	✓	✓	✓	✓
EMC Screening (ATC Braiding)	✗	✗	✗	✓	✓	✗
Sheath (EBXL EVA)	✓	✗	✓	✓	✓	✓
Test Voltage	6 KV for 15 min	3 KV for 5 min	1.5 KV for 5 min	1.5 KV for 5 min	2.0 KV for 1 min	1.5 KV for 5 min
Bending Radius	3XD < 10 mm 5XD > 10 mm	3XD < 10 mm 5XD > 10 mm	4XD (fixed) 5XD (flexible)	3XD (fixed) 5XD (flexible)	4XD (fixed) 5XD (flexible)	4XD (fixed) 5XD (flexible)

✓ = Included | ✗ = Not Included * Insulation color shall conform to standard or be customized as per customer requirements. Outer sheath will be provided in black for all Data sheets except Datasheet-2: Outer sheath color : Grey

Compliance & Fire Safety

Low Flame Spread / Flame Retardancy : IEC 60332-1-2, IEC 60332-3 CAT C

Low Smoke Emission : ASTM D 2843 / IEC 61034-2

Corrosivity of Combustion of gases (on Sheath only) : IEC 60754-2

Toxicity of Combustion of gases (on Sheath only) : NES 713

Key Features

Fire Safety : Limited Fire Hazard type with low smoke and toxicity

Insulation : Electron beam irradiated, flexible elastomeric construction provides extreme durability against mechanical stress, chemicals and temperature fluctuations

Environmental Resistance : Resistant to oil, diesel and various chemicals

Flexibility : Class 5 tinned, flexible copper conductors for easy installation



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