Railway Cables

Single Core Cables for Electric Locomotives & Rolling Stock
Types WAG-9, WAG-9H, WAP-5 & WAP-7 (CLW/ES/03/0458 Alt.E)

These high-performance cables are built for demanding applications, ensuring efficient and reliable power transmission in power, auxillary, control, sensor and driver circuits for AC traction motors in Railway rolling stock.

Application : Designed for critical power transmission within diverse railway rolling stock. These cables are primarily used as connecting leads for AC traction motors, specifically in MEMU (Mainline Electric Multiple Unit) trains and are also employed in other electric locomotives for high-voltage power circuits. Suitable for protected permanent installation in railway rolling stock (interior & exterior) for connections between fixed and moving parts

Advantages : Electron beam irradiated flexible elastomeric construction ensures exceptional durability against mechanical stress, chemical exposure and temperature variations

Dual-wall insulated electrical cable with limited fire hazard properties

This construction ensures extreme durability low flame spread, low smoke halogen free, flame retardant, and excellent resistance to high and low temperature, oil, ozone, weathering and abrasion. flexible & easy strippable

Construction:

Component	4GKW- 1.8 KV (1.8/3 KV) (Single Core Cable)	9GKW- 4 KV (3.6/6 KV) (Single Core Cable)	3GKW (300/500 V) (Single Core Wire)
Size (sq.mm)	1.5 sq.mm to 150 sq.mm	10 sq.mm to 150 sq.mm	0.5 sq. mm
Operating temperature	- 40° C to +120° C		
Circular Annealed Tinned Copper (Class-5) Complying to IEC 60228	☑	☑	☑
Insulation - EBXL EPDM	☑	☑	☒
Insulation - (Electron Beam Cross Linked Copolymer - Type EBXL EVA)	☒	☒	☑
Sheath-Type EBXL EVA	☑	☑	☒
HV TEST	6 KV at 50HZ for 15min	12 KV at 50HZ for 15 min	3 KVat50HZfor15min
Min. Bending Radius	3 X OD for Cable dia ≤ 10mm 5 X OD for Cable dia > 10mm		3 X OD for fixed installation 4 X OD for flexing installation

*The 300/500 V grade: Insulation Color: Red / Yellow with Green Stripe / customer requirements
*For 1.8 KV (4 GKW) Insulation color: Grey & outer sheath color: Black
*For 4.0 KV (9 GKW) Insulation color: Red & outer sheath color: Black

Compliance & Fire Safety

Low Flame Spread / Flame Retardant - IEC 60332-1-2, IEC 60332-3 CAT-C
Smoke Intensity - IEC 61034-2
Corrosivity of combustion of gases IEC 60754-2
Toxicity of combustion of gases, sheath only adheres to UITP part 2 E7

Key Features

Insulation type : features Electron Beam cross-linked insulation
Environmental resistance : resists oil, diesel and various chemicals
Physical properties : flexible and highly durable
Conductor material : flexible ATC conductors

Fire retardant | Good Chemical Resistance | Good Resistance to UV, humidity and ozone | High Flexible | Halogen Free | Low Corrosivity of combustion gases | Low toxicity | Operatingtemp.