



## Railway Cables

### Thin Walled Electron Beam Irradiated Flexible Elastomeric Cables With Copper Conductors

Electron beam irradiated thin walled flexible cables with copper conductor, limited fire hazard, minimum flame spread, low smoke emission and limited toxic fume emission properties.

<b>Specification</b>	: ELRS / SPEC / ELC / 0019, Rev.4
<b>Temperature Range</b>	: - 40° C to 120° C
<b>Conductor</b>	: Electrolytic flexible annealed tinned copper (Class 5)
<b>Application</b>	: For use in power, auxiliary as well as control circuits of conventional tap changer electric locomotives AC / DC EMU, BG AC EMU & MEMU / coaching stock
<b>Cable Type</b>	: Single Core Cable (single layer)
<b>Size</b>	: 1.5 Sq mm to 150 Sq mm
<b>Voltage Grade</b>	: Up to 750 V
<b>Insulation</b>	: EBXL EVA
<b>Cable Type</b>	: Single Core Cable (dual layer)
<b>Size</b>	: 1.5 Sq mm to 300 Sq mm
<b>Voltage Grade</b>	: Above 750 V & up to 1.8 / 3.0 KV
<b>Insulation</b>	: EBXL EPDM
<b>Sheath</b>	: EBXL EVA
<b>Colours</b>	: Red / Yellow / Blue / Black / Grey / GNYE / Chocolate / White as per customer requirement
<b>Cable Type</b>	: Multi Core Cables 19 Core 2.5 Sq mm and 19 Core 4.0 Sq mm
<b>Voltage Grade</b>	: Above 750 V & up to 1.8 / 3.0 KV
<b>Insulation</b>	: EBXL EPDM
<b>Sheath</b>	: EBXL EVA

### Thin Walled Electron Beam Irradiated Flexible Elastomeric Cables With Copper Conductors as per EDTS 132, REV-C

LFH type cables i.e. minimum flame spread, low smoke and toxic fume emission.

<b>Data Sheet-1</b> (Single Core Cable)	<b>Data Sheet-5</b> (UIC Cable)
<b>Voltage Grade</b> : 1800 V / 3000 V	<b>ITEM 1</b> -4Q x 1 Sq mm + 1P x 0.75 Sq mm (18 core cable)
<b>Conductor</b> : Circular annealed tinned copper (Class 5)	<b>ITEM 2</b> -5Q x 1 Sq mm + 1P x 0.75 Sq mm (22 core cable)
<b>Insulation</b> : EBXL EPDM	<b>Voltage Grade</b> :300 / 300 V
<b>Sheath</b> : EBXL EVA (black)	<b>Conductor</b> : Circular annealed tinned copper (Class 5)
<b>Data Sheet-2</b> (Single Core Cable)	<b>Insulation</b> : EBXL EPDM (white numbered cores)
<b>Voltage Grade</b> : 600 V / 1000 V	<b>EMC Screen</b> : Annealed tinned copper
<b>Conductor</b> : Circular annealed tinned copper (Class 5)	<b>Sheath</b> : EBXL EVA (black)
<b>Insulation</b> : EBXL EVA (grey)	<b>Data Sheet-6</b> (Multi Core Unscreened Cable)
<b>Data Sheet-3</b> (Multi Core Unscreened Cable)	<b>Voltage Grade</b> :600 V / 1000 V
<b>Voltage Grade</b> : 600 V /1000 V	<b>Conductor</b> : Circular annealed tinned copper (Class 5)
<b>Conductor</b> : Circular annealed tinned copper (Class 5)	<b>Insulation</b> : EBXL EPDM (white numbered cores)
<b>Insulation</b> : EBXL EPDM (white, brown, black & green / yellow coloured cores)	<b>Sheath</b> : EBXL EVA (black)
<b>Sheath</b> : EBXL EVA (black)	<b>Temperature Range</b> : -40° C to 120° C
<b>Data Sheet-4</b> (Multi Core Screened Cable)	<b>Application</b> : For power, signalling & control application in coaches
<b>Voltage Grade</b> : 600 V	
<b>Conductor</b> : Circular annealed tinned copper (Class 5)	
<b>Insulation</b> : EBXL EPDM (white, brown, black & green / yellow coloured cores)	
<b>EMC Screen</b> : Annealed tinned copper	
<b>Sheath</b> : EBXL EVA (black)	