

**Single Core 750V Grade Thin Walled Flexible EBXL Control Cables for Electric Locomotives**

**Application**

- ✓ Thin walled flexible EBXL control cables for Tap changer of electric locomotives, AC/DC EMU, BG, AC EMU & MEMU coaching stock.

**Product Construction**

- ✓ Conductor : Annealed Tinned Flexible Copper Conductor
- ✓ Insulation : Electron Beam Cross Linked Polyolefin, Single layer.

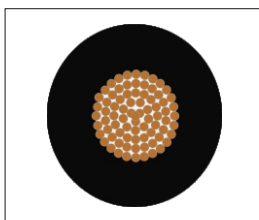
**Technical Data**

- ✓ Temperature range :  
Operating temp :-40°C to +120°C.
- ✓ Rated voltage : 750V
- ✓ Short circuit temperature :+280°C
- ✓ Test voltage : 6kV for 5 mins
- ✓ Min. bending radius : 3 x D for cable dia <10mm  
5 x D for cable dia >10mm
- ✓ Insulation resistance constant  
(at room temp) : K ≥ 2000 MΩ.Km
- ✓ Specification : ELRS / SPEC / ELC / 0019 Rev 4.

**Features**

- ✓ Limited fire hazard type
- ✓ Minimum flame spread
- ✓ Low smoke emission
- ✓ Limited toxic fume emission
- ✓ Resistant to mineral oil, diesel, etc.

**2D View**



**Approvals | Accreditations | Certifications**



Part Number	Nominal Cross Sectional Area of Core (mm <sup>2</sup> )	No. of Wires x Wire Dia. (max) (Nos. x mm)	Conductor Dia. Nominal (mm)	Minimum wall Thickness of Insulation (mm)	Overall Cable Dia (D) (mm)	Max. Resistance of Conductor at 20 deg. C (ohm/km)	Current Rating in air 30°C	Approx. Cable Weight (Kg/Km)
A53113XX	1.5	30 x 0.26	1.6	0.55	2.70 ± 0.10	13.7	32.6	19.5
A53116XX	2.5	50 x 0.26	2.1	0.60	3.30 ± 0.15	8.21	45.2	30.5
A53119XX	4.0	56 x 0.31	2.7	0.65	3.95 ± 0.15	5.09	61.0	46.5
A53123XX	6.0	84 x 0.31	3.3	0.70	4.50 ± 0.20	3.39	78.5	69
A53127XX	10	80 x 0.41	4.2	0.80	5.60 ± 0.30	1.95	111	113
A53128XX	16	126 x 0.41	5.5	0.86	7.20 ± 0.30	1.24	153	166
A53130XX	25	196 x 0.41	6.8	0.96	8.60 ± 0.30	0.795	203	250
A53132XX	35	266 x 0.41	7.8	1.10	10.00 ± 0.30	0.565	255	350
A53134XX	50	384 x 0.41	9.5	1.20	11.90 ± 0.30	0.393	322	500
A53137XX	70	348 x 0.51	11.5	1.30	14.20 ± 0.30	0.277	402	690
A53138XX	95	468 x 0.51	12.9	1.40	15.70 ± 0.30	0.210	489	900
A53141XX	120	589 x 0.51	14.8	1.50	17.70 ± 0.30	0.164	578	1180
A53142XX	150	741 x 0.51	16.3	1.60	20.30 ± 0.30	0.132	670	1460

Note : XX\* : Please add last two digits in the part number as per the colour code given here under replacing XX while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
Chocolate - 12	Tan - 13	Charcoal - 14	LT Blue - 15	DK Grey - 16	LT Green - 17	DK Green - 18	DK Blue - 19	Purple - 20	Pink - 21	

\*\* We have obtained various approvals, accreditations, and certifications — some of which may not be relevant to this catalog.

