



Single Core above 750V and Upto 1.8/3kV Thin Walled Flexible EBXL Cables for Electric Locomotives

Application

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

Features

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

Product Construction

- ✓ Conductor : Annealed Tinned Flexible Copper Conductor
- ✓ Insulation : Electron Beam Cross Linked Polyolefin.
- ✓ Outersheath : Electron Beam Cross Linked Polyolefin.

	ISO 9001	ISO 14001	AS 9100	ISO 45001
	Indian Railways 			

Technical Data

- ✓ Temperature range :
Operating temp. :-40°C to 150°C
- ✓ Rated voltage : Above 750V upto 1.8/3kV
- ✓ Short circuit temperature : +280°C.
- ✓ Test voltage : 8kV for 15 mins.
- ✓ Min. bending radius : 3 x D for cable dia <10mm
5 x D for cable dia >10mm
- ✓ Insulation resistance constant
(at room temp) : $K \geq 12000 \text{ M}\Omega \cdot \text{Km}$
- ✓ Specification : ELRS / SPEC / ELC / 0019 Rev 3.

Part Number	Nominal Cross Sectional Area of Core (mm ²)	No. of Wires x Wire Dia. (max) (Nos. x mm)	Conductor Dia. Nominal (mm)	Minimum wall Thickness of Insulation (mm)	Minimum wall Thickness of Sheath (mm)	Overall Cable Dia (D) (mm)	Max. Resistance of Conductor at 20 deg. C (ohm/km)	Approx. Cable Weight (Kg/Km)
R2581309XX	1.5	30 x 0.26	1.6	0.30	0.40	3.20 ± 0.10	13.7	20
R2581609XX	2.5	50 x 0.26	2.1	0.30	0.40	3.70 ± 0.15	8.21	30
R2581909XX	4.0	56 X 0.31	2.7	0.35	0.45	4.50 ± 0.15	5.09	50
R2582309XX	6.0	84 x 0.31	3.3	0.35	0.45	5.10 ± 0.15	3.39	70
R2582709XX	10	80 x 0.41	4.2	0.40	0.50	6.30 ± 0.20	1.95	120
R2582809XX	16	126 x 0.41	5.5	0.50	0.70	8.30 ± 0.20	1.24	190
R2583009XX	25	198 x 0.41	6.8	0.60	0.80	10.2 ± 0.30	0.795	280
R2583209XX	35	266 x 0.41	7.8	0.65	0.85	11.7 ± 0.30	0.565	390
R2583409XX	50	385 x 0.41	9.5	0.70	0.90	13.6 ± 0.30	0.393	550
R2583709XX	70	348 x 0.51	11.5	0.75	0.95	15.6 ± 0.30	0.277	740
R2583809XX	95	468 x 0.51	12.9	0.85	1.05	17.3 ± 0.30	0.210	960
R2584109XX	120	589 x 0.51	14.8	0.95	1.15	19.6 ± 0.30	0.164	1200
R2584209XX	150	741 x 0.51	16.3	1.00	1.20	21.9 ± 0.30	0.132	1550
R2584409XX	185	912 x 0.51	18.5	1.05	1.25	23.8 ± 0.30	0.108	1898
R2584609XX	240	1184 x 0.51	21.0	1.10	1.30	26.9 ± 0.30	0.0817	2449
R2584809XX	300	1480 x 0.51	23.5	1.15	1.35	29.7 ± 0.30	0.0654	3036

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	

