



सत्यमेव जयते

**GOVERNMENT OF INDIA**

**MINISTRY OF RAILWAYS**

**INDIAN RAILWAYS TECHNICAL SPECIFICATION**

**FOR**

**THIN WALLED FLEXIBLE ELASTOMERIC CABLES  
WITH COPPER CONDUCTORS**

**FOR**

**WORKING VOLTAGES**

**(i) UPTO 750 VOLTS**

**AND**

**(ii) ABOVE 750 VOLTS UPTO 1.8/3.0KV**

**(FOR TAP CHANGER ELECTRIC LOCOMOTIVES, AC/DCEMU, BG AC  
EMU& MEMU/COACHING STOCK)**

**Specification No. ELRS/SPEC/ELC/0019, (REV-3)**

APPROVED BY	SIGNATURE
EDSE(CO-ORD)	 28.2.17

**ELECTRICAL DIRECTORATE  
RESEARCH DESIGNS & STANDARDS ORGANISATION  
MANAK NAGAR, LUCKNOW - 226011**

Prepared by	Checked by	Issued by
 28.02.2017	 JE/Design	 EDSE

### Status of Revision

S. N.	Date of Revision	Clause No.	Revision	Reasons for Revision
1.	06.07.2010	Amendments made in relevant pages and the same are renumbered	1	i) Incorporation of provisions contained in the guidelines & approval of Railway Board circulated vide their letters dated 20.03.09 & 27.04.10 ii) Inclusion of all Amendments of Rev 0 of spec in the main text of Rev 1.
2.	21.02.2011	Amendments made in relevant pages and the same are renumbered	2	Incorporation of provision contained in the approval of Railway Board vide their letter dated 06.12.2010 regarding use of single layer insulation/sheath for cable upto 750V with EVA material for conventional electric locomotives and correction of dimension in Data Sheets 1A& 2A.
3	22.02.2017	1.5 (new clause), 2.1 ,3.2.3 ,7.1.2,7.1.3,7.2.1(c,d), 7.2.4, 7.2.5,7.2.8, 7.2.13,7.2.15,7.2.21,7.2.22,7.2.24,7.3.2,7.4.1(c,d),11.4	3	Incorporation of provision contained in Railway Board 2016/ML/Misc dated 16-5-16 for using improved polymers for manufacture of cables capable of withstanding high temperature i.e. at least 150 deg C instead of 120 deg C and in turn other changes.

Prepared by JE/ Design <i>28.02.2017</i>	Checked by JE/ Design <i>[Signature]</i>	Issued by EDSE <i>[Signature]</i>
---	---	--------------------------------------

