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Form No. 2038

उत्पाद मानक
परिणामित्र
शाप/अभि. निर्देश

PRODUCT STANDARD
TRANSFORMER
SHOP/ENGG INSTRUCTIONS

TR20157C

2 प्रष्ठों में 1

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**SPECIFICATION OF PVC INSULATED MULTICORE AND ARMOURD
COPPER CABLES WITH F.R.L.S. PROPERTIES
(GRADE 1100 VOLTS)**

1. GENERAL

Cable as per below table shall generally conform to our spec. BP 28575 Rev. 04 and IS 1554 Pt.1 (1988) with additional requirement of FLAME RETARDANT LOW SMOKE (FRLS) properties (by using special PVC compound), and each core having seven parallel conductors of 0.67 mm dia.

It. No.	Description	Style no
1.	3 C x 2.5 mm ² FRLS Cu cable	BP9066057181
2.	7 C x 2.5 mm ² FRLS Cu cable	BP9066057190
3.	12 C x 2.5 mm ² FRLS Cu cable	BP9066057203
4.	19 C x 2.5 mm ² FRLS Cu cable	BP9066057211
5.	4 C x 35 mm ² FRLS Cu cable	BP9066057530
6.	4 C x 70 mm ² FRLS Cu cable	BP9066057548
7.	4 C x 2.5 mm ² FRLS Cu cable	BP9066057823
8.	4 C x 4 mm ² FRLS Cu cable	BP9066059435
9.	7 C x 4 mm ² FRLS Cu cable	BP9066059443

2. TESTING

Following test shall be carried out on materials used and on finished cables

- Conductor : Conductor shall consist of annealed high conductivity copper wires with electrical & mechanical properties in accordance with IS 8130 (1984).
- Insulation & sheath material : All type and routine tests as per IS 5831 (1984).
- Finished cable : All type and routine tests as per BP 28575 Rev. 04 & IS 1554 Pt. 1 (1988).
- in addition to above, tests as mentioned below shall be carried out to prove FRLS properties of the cable.

SPECIAL TESTS :

	TEST	FUNCTION OF TEST	SPECIFICATION	SPECIFIED VALUE
a)	Critical Oxygen Index	To determine percentage of Oxygen required for supporting combustion at room temperature of sheathing material.	ASTM-D 2863-1974	Oxygen Index Min. 29
b)	Temp index	To determine at what temperature normal oxygen content of 21% in air will support combustion of sheathing	ASTM-D 2863-1974	Min. Temperature index 250 °C

पुन. Rev.
05
दि. Di.
28/08/18

ITEM No. 08 & 09 ADDED.

नितीन NM A.DEOTA

वितरण
DISTRIBUTION.

सं.

CHECKED &
APPROVED

S.G.Bokade / J. S. Kuntia

पुन. Rev.
04
दि. Di.
28/08/18

ITEM NO.01 DESTYLED.

TK AKD M.K./URS

TRE/TRM/FTM
TRX/TTG/QC-TCB
/QA-TCB/JHANSI

तैयार किया
PREPD.
Amulya Deota

जारी किया ISSUED
टीआरई/मानक
TRE/STD.

दिनांक
DATE
12.03.16

TR20157C

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Notes - Supplier shall specifically confirm that cable offered shall meet the complete requirement of our specification. - T.C.s for all type & routine tests shall be furnished. - Cable shall be inspected / tested by BHEL or by its authorized agency at source. - Dia. over inner & outer sheath and wt/ meter for each size of cable shall be furnished.																																				
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