Date August 23, 2024

## **SPECIFICATION**

**FOR** 

### 600V FLEXIBLE CABLE

Code: 600V CUR-2PECT-SB 7×4mm<sup>2</sup>(NMB)

Quantity

Your Ref. No.

Our Ref. No.

Signed by

Takanobu Watanabe

Manager

Engineering Dept. I Electric Wire & Cable Business Unit

Proterial, Ltd.

#### Issue and revision record

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Rev.	Issue	Item	Prepared	Reviewed	Approved
No	date		by	by	Ьу ∧
-	August 23, 2024	First issue	X. Yamare K. Yamane	N.Ono	T.Wuray L T.Watanabe

#### 1. Scope

This specification covers 600V Flexible Cable, which is reference to Japanese Electrical Appliance and Material Safety Law and Manufacturer's Standard.

#### 2. Construction and Materials

#### 2.1 Conductor

Conductor shall be stranded flexible conductor consisting of tinned annealed copper wires. A suitable separator tape shall be applied over the conductor.

#### 2.2 Insulation

Insulation shall consist of ethylene propylene rubber compound. Nominal thickness shall be shown in the attached table 1.

Ave. thick. : not less than 90% of the nominal thickness Min. thick. : not less than 80% of the nominal thickness

#### 2.3 Core identification

The core identification shall be made by the number printed on insulation as shown in the attached figure 2.

#### 2.4 Cabling cores

The insulated conductors shall be cabled. Suitable fillers and binder may be applied at manufacturer's discretion, if necessary.

#### 2.5 Braided shield

Braided shield shall consist of tinned annealed copper wire. A suitable tape shall be applied over the Braided shield.

#### 2.6 Sheath

Sheath shall consist of original rubber compound.

Nominal thickness shall be shown in the attached table 1.

Ave. thick. : not less than 90% of the nominal thickness Min. thick. : not less than 85% of the nominal thickness

#### 2.7 Dimension

The dimension of the cable shall be in accordance with the attached table 1.

#### 3. Marking

Manufacturer's name and year of manufacture shall be marked by suitable methods.

#### 4. Inspection

Inspection shall be made on the following items prior to shipment.

Properties	Standard to comply with	Requirements	Test interval	
Construction and dimensions	JIS C 3005 4.3	To comply with clause 2 and the attached table 1		
Withstand voltage test	JIS C 3005 4.6	To withstand AC 3000V for 1 min.	Every shipment	
Conductor resistance	JIS C 3005 4.4	Not more than the value in the attached table 2		
Insulation resistance	JIS C 3005 4.7	Not less than the value in the attached table 2	First shipment	

#### 5. Guide to use

This cable is designed for curtain style method as shown below.

# 1.Curtain style method (Festoon method)

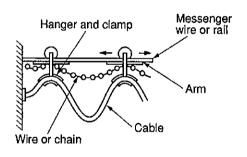


Table 1 : Dimensions

{ Code: 600V CUR-2PECT-SB 7×4mm<sup>2</sup>(NMB) }

	Item	Unit	Specified Value	
No. of conductor			7	
Conductor	Nom. cross-section area	mm²	4	
	Construction	No./mm	56/0.3	
	Approx. diameter	mm	2.6	
Nominal thickness of insulation		mm	1.0	
Approx. thickness of braided shield		mm	0.45	
Nominal thic	ckness of sheath	mm	2.5	
Approx. dia	meter of completed cable	mm	23.5	
Max. diame	ter of completed cable	mm	24.7	
Approx. wei	ght of completed cable	kg/km	725	

Table 2 : Characteristic

Item	unit	Specified Value	
No. of conductor	_	7	
Conductor nominal cross-section area	mm²	4	
Max. conductor resistance at 20℃	Ω/km	5.09	
Min. insulation resistance at 20℃	MΩ-km	400	
Permissible minimum bending radius	mm	150	

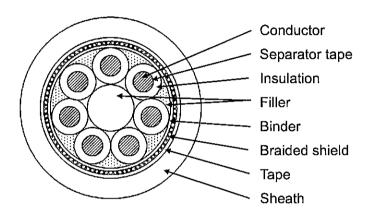


Fig.1 Cable cross section

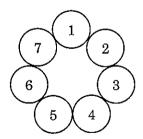


Fig.2 Core identification