SPECIFICATION

FOR

6600V FLAT TYPE TRAILING CABLE

Code : 6600	V F-H-3PNCT	3×95 mm $^2 + 1 \times 50$ mm 2	
Quantity			
Your Ref. No.			
Our Ref. No.		1 1	
Signed by	T.Wa	Aqual	

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Proterial, Ltd.

Issue and revision record

REV.	Issue date	Item	Prepared by	Reviewed by	Approved by
	March 12, 2025	FIRST ISSUE	K. Yomane K. Yamane	M.Ono N. Ono	T. Watanabe
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1. Scope

This specification covers 6600V Flat Type Trailing Cable, which is reference to Japanese Electrical Facility Regulation and Manufacturer's Standard.

2. Construction and Materials

2. 1 Power conductor

2. 1. 1 Conductor

Conductor shall be stranded flexible conductor consisting of tinned annealed copper wires.

2.1.2 Inner semi-conductive layer

A suitable semi-conductive tape shall be applied over the conductor. The thickness of the semi-conductive tape shall be included in a part of the insulation thickness.

2. 1. 3 <u>Insulation</u>

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

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

2. 1. 4 Outer semi-conductive layer

A suitable semi-conductive tape shall be applied over the insulation.

2. 1. 5 Shield braid

Shield braid shall consist of tinned annealed copper wires.

2. 1. 6 Core identification

The core identification shall be made by the color of the tape which is applied under the shield braid.

2. 1. 7 Reinforcement

Reinforcement consisting of suitable fabric tape shall be applied over the shield braid.

2. 2 Earth conductor

2. 2. 1 Conductor

Conductor shall be stranded flexible conductor consisting of tinned annealed copper wires.

2. 2. 2 Insulation

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

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

2. 2. 3 Tape

Rubber filled texile tape shall be applied over the insulation.

2. 3 Assembly

The power and earth conductors shall be assembled in parallel.

2. 4 Sheath

Sheath shall consist of black polychloroprene compound. Nominal thickness shall be shown in the attached table.

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

2.5 Dimension

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

3. Marking

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

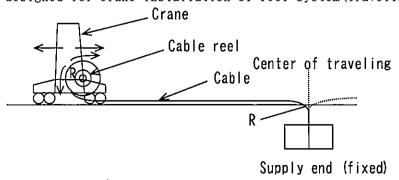
4. Inspection

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

Properties	Standard to comply with	Requirements	Test interval	
Construction and dimensions	onstruction 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	Power conductor: To withstand AC 17000V for 10 min. Earth conductor: 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 crane installation of reel system(traveling) as shown below.



R : Permissible minimum bending radius

	· Item		Specified value	
Type of cor	9	_	Power Earth	
No. of core	S		3 1	
	Nominal cross-section area	mm²	95	50
Conductor	Construction	No. /mm	19/25/0.5	19/16/0. 45
1	Approx. diameter	mm	14. 4	10. 4
Nominal thi	ckness of insulation	ess of insulation mm 5.0 * 2.1		2. 1
Approx. thi	Approx. thickness of shield braid mm 0.45		0. 45	_
Nominal thi	ckness of sheath	mm	6. 7	
Approx. dimension of completed cable		mm	40. 5×108	
Maximum dim	m dimension of completed cable mm 42.6×113.4		(113. 4	
Approx. weig	ght of completed cable	kg/km	7940	

^{* :} This value includes thickness of inner semi-conductive tape.

Table 2 : Characteristic

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Item	Unit	Specified value		
Type of core	-	Power	Earth	
Nominal cross-section area	_	95	50	
Conductor resistance at 20℃	Ω/km	0. 210	0. 411	
Insulation resistance at 20℃	MΩ·km	500	300	
Permissible minimum bending radius	mm	650		
Permissible maximum pulling tension **	kN	11. 1		
Permissible maximum compression force ***	kN/m	4. 9		

**: In any case, pulling tension and compression force must not exceed this value. For safety, regular pulling tension should be 1/3 of the permissible maximum value. It is necessary to determine the pulling tension considering the compression force.

*** : Compression force = Pulling tension / Bending radius

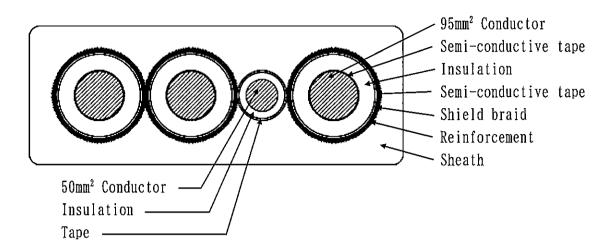
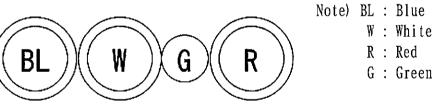


Fig. 1 Cable cross section



 \bigcirc : 95mm^2 \bigcirc : 50mm^2

Fig. 2 Core identification