Date April 2, 2025

SPECIFICATION

FOR

600V FLEXIBLE REELING CABLE

Code: 600V SPD(RE)-FHNCT $44 \times 2.5 mm^2$ 600V SPD(RE)-FHNCT $56 \times 2.5 mm^2$

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

inc	Rev. Issue Prepared Reviewed Approved							
Issue	Item	Prepared	Reviewed	Approved .				
	F			by				
Mar. 5, 2018		-	_	K.Fukuzato				
1 May 28,2019		K. Yarmala	n. Tro	K.Fukuzato				
	·Permissible maximum pulling tension added.	K.Yamane	N.Ono	K.Fuktizato				
		į						
			;					
				:				
		!		,				
				İ				
i			1					
			!					
		!						
			;					
	date Mar. 5, 2018	date Mar. 5, 2018 First issue Nominal thickness added	Mar. 5, 2018 First issue K.Yamane Nominal thickness added. **Nominal thickness added.** **Xamala**	dateItembybyMar. 5, 2018First issueK.YamaneK.FukuzatoMay 28, 2019Nominal thickness added.K. YamalaN. Ono				

1. Scope

This specification covers 600V ETFE Insulated Flexible Reeling Cable which is reference to Manufacturer's Standard.

2. Construction

2.1 Conductor

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

2.2 Insulation

Insulation shall consist of ETFE(Copolymer of Ethylene and Tetrafluoro Ethylene) compound. Nominal thickness shall be shown in the table 1.

2.3 Core identification

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

2.4 Cabling of cores

The insulated conductors shall be cabled.

Suitable rubber fillers and binder tape may be applied at manufacturer's discretion, if necessary.

2.5 Sheath

Sheath shall consist of our orignal compound.

Nominal thickness shall be shown in the table 1.

A straight line shall be marked on the surface of the sheath.

2.6 Reinforcement

Reinforcement consisting of suitable fiber braid shall be applied the midle of sheath.

2.7 Marking

Manufacture's name and year of manufacture shall be marked by suitable method.

3. Inspection

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

- (1) Construction and dimension
- (2) Withstand voltage test
- (3) Insulation resistance
- (4) Conductor resistance

Table 1 : Dimensions and Electrical properties

{ Code : 600V SPD(RE)-FHNCT $44X2.5mm^2$, $56X2.5mm^2$ }

	Item		Specified Value		
No. of conductor		-	44	56	
Conductor	Size	mm²	2.5	2.5	
	Construction	No./mm	49/0.25	49/0.25	
	Diameter	mm	2.1	2.1	
Nominal thickness of insulation		mm	0.4	0.4	
Approx. diameter of tension member		mm	3.5	3.5	
Approx. thickness of reinforcement		mm	0.5	0.5	
Nominal thickness of sheath		mm	5.2	6.8	
Approx. diameter of completed cable		mm	36	42	
Maximum diameter of completed cable		mm	37.8	44.1	
Approx. weight of completed cable		kg/km	1980	2690	
Maximum conductor resistance at 20℃		Ω/km	8.21	8.21	
Minimum insulation resistance at 20℃		MΩ-km	1000	1000	
Withstand voltage		V/min.	3000/1	3000/1	
Permissible maximum pulling tension		kN	7.0	7.0	

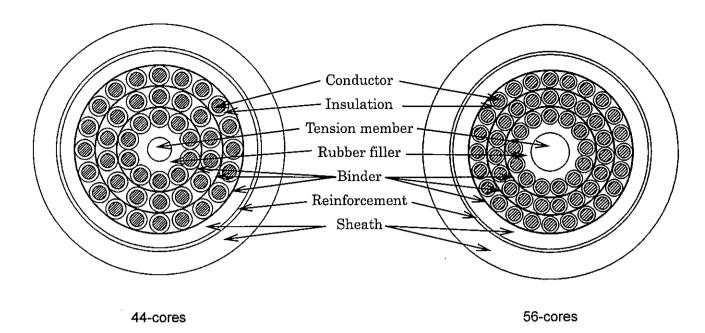


Fig.1: Cable Cross Section

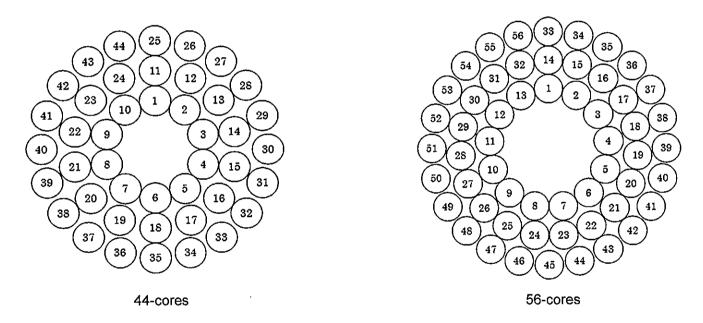


Fig.2 Core identification