



NO. SBT-04592A

Messrs. _____

SPECIFICATION

FOR

6/10KV EP RUBBER INSULATED AND POLYCHLOROPRENE

SHEATHED FLEXIBLE CABLE

(CI-PNCT-185)

Project : _____

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Fujikura Ltd.

1. SCOPE:

This specification covers 6/10kV CI-PNCT-185 in accordance with IEC/ISO/IEEE 80005-1, excluding sheath material.

2. CONSTRUCTION:

Conductor	:	Tinned annealed copper, stranded, and Stainless steel wire (only control core)
Conductor screen	:	Semi-conductive layer (only power core)
Insulation	:	EP rubber
Insulation screen	:	Semi-conductive layer (only power core)
Optical fiber	:	GI62.5/125
Outer sheath	:	Black colored poly chloroprene*

*There are patterns of taping on the surface because of manufacturing reasons. Characteristics of the cable is unaffected by the patterns.

Core identification

Power cores	:	Numbering (1 - 3)
Control cores	:	black, white, red, green
Optical fibers	:	white x 4, red, green

Cable marking

Name of manufacturer	:	FUJIKURA
Year of manufacturer	:	
Rating Voltage	:	6/10kV
Construction	:	3x185+1x95+4x2.5+6x62.5/125

3. TEST

- 1) Constructional test
- 2) Conductor resistance test
- 3) High voltage test

Table 1

Type of cable		CI-PNCT-185		
Rated voltage		6/10kV	—	150/250V
Kind of core		Power	Earth	Control
Number of core		3	1	4
Conductor	Nominal sectional area (mm ²)	185	95	2.5
	Dia. of wire (mm)	0.45 TA*	0.45 TA	0.25 TA 0.3 SUS*
	Approx. dia. of conductor (mm)	19.2	14.4	2.0
Thick. of insulation (mm)		3.4	—	0.7
Shielding		—	—	Flexible copper fibrous braid
Approx. diameter (mm)		28.6	14.4	13.1
Core identification		Numbering	—	Black, White, Red, Green
Optical Fiber	Type	GI62.5/125		
	Number of cores	6		
	Approx. diameter	12.5		
	Core identification	White x 4, Red, green		
Thick. of inner sheath (mm)		}	6.0	
Thick. of reinforcement (mm)				
Thick. of outer sheath (mm)				
Overall dia.	Standard (mm)	75.3		
	Max. (mm)	77.0		
Approx. net weight (kg/km)		10800		
Testing voltage (kV/5min.)		21	—	1.5
Max. conductor resistance at 20°C (Ω/km)		0.108	0.210	8.21
Minimum bending radius (mm)		565		
Maximum tensile strength (kN)		11.1		
Permissible lateral pressure (kN/m)		4.9		

*TA : Tinned annealed copper wire

SUS : Stainless steel wire

Construction

