

TECHNICAL SPECIFICATION OF FIELD TELEPHONE CABLE

Ser No	Description	Technical Specification	To be filled up by the Manufacturer/ Principal
(a)	(b)	(c)	(d)
GENERAL DATA			
1.	Nomenclature	Field Telephone Cable	
2.	Make and Model	To be mentioned	
3.	Country of Origin	Group A or B Countries	
4.	Country of Manufacture	Group A or B Countries	
5.	Country of Assembly	Group A or B Countries	
6.	Year of Manufacture	Not before the calendar year of contract	
7.	Apparent Shape	Double Wire (Twisted)	
8.	Color	Black	
9.	Warranty	Minimum 01 (One) year after final acceptance of all item	
10.	Name, Address, Contact Number, Website/ E-mail Address of the	To be mentioned	
11.	Name, Address, Contact Number, Website/ E-mail Address of the Principal	To be mentioned	
12.	Name, Address, Contact Number, Website/ E-mail Address of the Local Agent	To be mentioned	
13.	Conductors (Physical characteristics)		
	a. Number of Strands	07 Nos	
	b. Number of Tin covered copper Strands	04 Nos	
	c. Number of Zinc covered steel Strands	03 Nos	
	d. Diameter of each Strands	0.28 mm $\pm$ 0.01 mm	
14.	Thickness of insulation (Polyethylene)	Minimum 0.35 mm	
15.	Thickness of Polyamide Jacket (Nylon)	0.15 mm (Average)	
16.	Overall diameter of single conductor	Maximum 2.30 mm	
17.	Breaking load for two wires conductor	Minimum 72 Kg	
18.	Cutting load test	55 lbs (Average)/ 25 Kg (Average)	
19.	DC Loop Resistance	151 Ohm/ Km (at 20°C)	
20.	Insulation Resistance	2000 M Ohm/ Km (Minimum)	
21.	Dielectric Strength Test	1000 V AC (Minimum)	
22.	Weight of Zinc Cover for each steel Strand	Minimum 25 gm/ Kg	



FOR OFFICIAL USE ONLY

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(a)	(b)	(c)	(d)
23.	Weight of Tin Covered for each copper Strands	8.75 – 24.8 gm/ Kg	
24.	No of Twist/m	14 -16 Nos (Average)	
25.	Abrasion Test	The cable must withstand the abrasion, if an empty 03 ton vehicle runs over the cable for 08-10 times on natural ground	
26.	Environmental Standards		
	a. Operating Temperature	-5 ⁰ C to + 55 ⁰ C	
	b. Storage Temperature	-5 ⁰ C to + 55 ⁰ C	
	c. Humidity Permissible Condition for Operation	Maximum 95%	

