SHAHID GHANDI COMMUNICATION CABLE CO.

CODE: 0114-000

TECHNICAL SPECIFICTION FOR ONE PAIR SELF SUPPORTING CABLE (DROP WIRE)



SALE ENGINEERING DEPARTMENT JUNE 2011

E-Mail: Info@sgccir.com



SPECIFICATION FOR ONE PAIR SELF SUPPORTING CABLE (DROP WIRE)

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1 - GENERAL

This specification details physical and electrical characteristics of 1 pair self supporting drop wire.

2 - ASSOCIATED DOCUMENTS

This specification is in accordance with REA'ASTM (American society for testing and material), BS (British Standard Institute), IP (Institute of Petroleum) and ISO (International Organization for Standardization) have been specified.

3 - TEMPERATURE AND ENVIRONMENT

The cables shall without detriment, perform suitably throughout a temperature range of -40 to +70 C.

4 - CONDUCTOR

Each conductor is a solid wire of commercially pure annealed copper, smoothly drawn, circular in cross section, uniform in quality and free form defects. Conductors meet the quality requirements of ASTM B3. The maximum resistance for a cross section area of 1 mm² and a length of 1 km is 17.241 ohms when measured at 23±2 °C. The nominal conductor diameters may be 0.6 or 0.9 mm.

5 – SUSPENSION WIRE

The suspension wire will consist of a solid galvanized steel wire having a diameter of 0.7 ± 0.02 mm with a tensile strength of 1400N/mm2 minimum and ultimate elongation of %3 MIN . The amount of zinc coating on the wire will be 120~g/m2 according to ASTM A-475 or BS183.

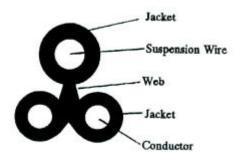
6 – JACKET INSULATION

The conductors and the suspension wire will be covered by black polyethylene, type I class C category 4 or 5 grade J-3 as per ASTM D 1248. The jacket thickness should be such that it satisfies the electrical requirements of this specification.

7- CABLE FORMATION

The cross section will be according to FIG. 1

FIG.1



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8 - ELECTRICAL PARAMETERS

TABLE (1)

PARAMETER	UNIT	0.6	0.9
Max Conductor Resistance	O/km	63	28
Max Resistance Unbalance	%	4.5	4.5
Mutual Capacitance	nf/km	39±2	39±2
Insulation Resistance 500 v/1 min	MO/km	2000	2000
Dielectric Strength	KV/5sec	15	15

9 - CABLE SIZES

Cables size is in accordance with the following table:

TABLE (2)

WIRE SIZE (mm)	WEIGHT (kg/km)	LENGTH (m)	
0.6	21	330m coils or up to 10000m on reels	
0.9	29		

NOTE: Other length as request

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