

POLYETHYLENE INSULATED MULTIPAIR FILLED TELEPHONE CABLES TO ENA TS 09-6 FOR INDUCED VOLTAGES UP TO 15 KV



Telecommunication
Cable



Waterproof



UV resistant



Rodent
resistant



Impact
resistant



ROHS
compliant

STANDARDS

ENA TS 09-6 issue 8 2012 / BS 7870-8-2: 2003

DESCRIPTION AND APPLICATION

Cables from 4 to 37 pairs with 0.8 mm copper conductors. Solid PE insulation, twisted into pairs, stranded in layers and filled with petroleum jelly. Bedding of PE, steel wires armouring and external black PVC sheath.

These cables are intended for feeder protection and speech and data transmission. They have been designed to operate as an integral part of a power cable system and to withstand induced voltage levels due to fault currents in adjacent circuits up to 15 Kv.

CONSTRUCTION

- **Conductors:** Annealed copper single strand of 0.80 mm nominal diameter.
- **Insulation:** Solid polyethylene type TI Y to BS 7870-8-2 table 7. Nominal thickness 0.8 mm.
- **Cabling elements:** Pairs.
- **Lay-up:** Lay up in layers. Pair identification according to BS 7870-8-2 paragraph 6.
- **Filling compound:** Petroleum jelly. Drop point > 55°C.
- **Core wrapping.** Plastic tape, longitudinally applied with overlap.
- **Bedding:** Polyethylene type TM Y to BS 7870-8-2 table 7.
- **Armour:** galvanized steel wires helically applied
- **Outer sheath:** Black PVC compound type TM 1 to BS 7655-4-1.
- **Sheath marking :** The outer sheath shall be embossed, at regular intervals of about 500 mm, in one line (cables with $d \leq 15$ mm) or two lines (cables with $d > 15$ mm) with the following legend:
 - *ELECTRIC CABLE – TELE F – BS 7870-8-2 – CABLESCOM – (year of manufacture)*
 - *Length markings in white ink can also be printed at the option of the client*
 - *Other type of markings is also possible according to the customer.*



All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

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ELECTRICAL CHARACTERISTICS (20°C)		0.8
<i>Maximum loop Resistance (Ω/km)</i>		73.6
<i>Minimum insulation resistance (20°C, 500 V, MΩxkm)</i>		5000
<i>Maximum mutual capacitance (nF/km, 800 Hz)</i>		50
<i>Maximum capacitance unbalance (pF/500m, 800 Hz)</i>		
• Between any pair combination		500
• Between carrier pair combinations		50
<i>Dielectric strength (Vac, 1 min)</i>		
• Pair to pair		10000

MECHANICAL CHARACTERISTICS

Temperature range: from -20° C to +70° C

Bending radius: 15 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 0.80 mm					
Code	No. Pairs	steel wires Diam (mm)	Cable Diam (mm)	Aprox. Weight (kg/km)	Length (m)
EA3X1CF80000402N	4	1.25	20.0	750	1000
EA3X1CF80000702N	7	1.25	23.0	910	1000
EA3X1CF80001902N	19	1.60	31,5	1600	1000
EA3X1CF80003702N	37	2.00	40.5	2650	1000

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