

LD138. FILLED UNIT TWIN PAIR CABLES – SELF-SUPPORTED



Telecommunications cable



Water blocked



UV resistant



Overhead line cable



ROHS compliant

STANDARDS

Construction. EIRCOM LD 138

DESCRIPTION AND APPLICATION

Cables from 10 to 200 pairs, copper conductors with diameters of 0.5, 0.63 or 0.9 mm. petroleum jelly filled, solid, polyethylene insulated, unit twin, screened and self-supported for use in the overhead local area network. Used as distribution network in self-supporting aerial installations.

CONSTRUCTION

- **Conductors:** Annealed copper, diameters of 0.50, 0.63 and 0.90 mm.
- **Insulation:** Cellular HDPE.
- **Cabling elements:** Pairs.
- **Lay-up:** Pairs in units of 10 or 25 pairs (cables of 75 and 200 pairs).
- **Filling compound:** PE petroleum jelly.
- **Core wrapping:** Longitudinal dielectric tape applied with overlap.
- **Screen:** Longitudinal aluminium tape coated with PE copolymer applied with overlap and bonded to the outer sheath of PE.
- **Sheath:** Black UV resistant LDPE.
- **Sheath marking:** The outer sheath shall be marked at regular intervals with the following information:
 - Name of Manufacturer / year / Length markings
 - Other type of markings is also possible according to the customer



ELECTRICAL CHARACTERISTICS (20°C)	0,50	0,63	0,90
<i>Conductor resistance (Ω/km)</i>			
Average	91	58	28
Maximum	96	60	30
<i>Minimum insulation resistance (MΩxkm, 20°C, 500 V)</i>		6500	
<i>Mutual capacitance average/maximum (nF/km, 800 Hz)</i>	56/64	56/64	59/69
<i>Maximum capacitance unbalance (pF/500m, 800 Hz)</i>			
2 pair cable		275	
Cables with more than 2 pairs		800	
<i>Dielectric strength (Vdc, 3 s)</i>			
conductor – conductor	500	500	500

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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STRENGTH MEMBER CHARACTERISTICS

Strength member

Composition	7x1,6
diameter (mm)	4,8

MECHANICAL CHARACTERISTICS

Temperature range: from -25° C to +65° C

Minimum bending radius: 12 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter: 0.50 mm

Code	# Pairs	cable (mm)	Weight approx. (kg/km)	Length (m)	Drum
EA3I03A50001002N	10	10.9	275	1000	A0
EA3I03A50002002N	20	12.7	334	1000	B0
EA3I03A50003002N	30	14.6	402	1000	B0
EA3I03A50004002N	50	17.5	524	1000	B0
EA3I03A50007502N	75	20	654	1000	A4
EA3I03A50010002N	100	23.6	838	1000	B0
EA3I03A50020002N	200	31.3	1418	1000	B0

Diameter : 0.63 mm

Code	# Pairs	cable (mm)	Weight approx. (kg/km)	Length (m)	Drum
EA3I03A64001002N	10	12.4	316	1000	A2
EA3I03A64002002N	20	14.9	413	1000	B0
EA3I03A64003002N	30	17.2	510	1000	B0
EA3I03A64004002N	50	20.6	685	1000	B0
EA3I03A64007502N	75	24.7	932	1000	A6
EA3I03A64010002N	100	28.3	1176	1000	B0
EA3I03A64020002N	200	38.7	2121	1000	BB

Diameter : 0.90 mm

Code	# Pairs	cable (mm)	Weight approx. (kg/km)	Length (m)	Drum
EA3I03A91001002N	10	15.4	423	1000	A3
EA3I03A91002002N	20	18.6	595	1000	B0
EA3I03A91003002N	30	21.5	761	1000	B0
EA3I03A91004002N	50	26.9	1135	1000	A6
EA3I03A91007502N	75	32	1578	1000	A8
EA3I03A91010002N	100	37.6	2082	1000	B0

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