EA550H0-Ed1

ARMOURED TELECOM QUAD CABLES FOR DISTRIBUTION NETWORKS SERIES 88 AND 89 ARMOURED


Telecommunication cables


UV resistant


Impact resistant


Rodent resistant

ROHS compliant

STANDARDS

Construction: generally to UTE C 93-526 and UTE C 93-527-2

DESCRIPTION AND APPLICATION

Telecommunication cables from 8 to 224 pairs (4 to 112 quads). Copper conductor of 0.4, 0.6 and 0.8 mm, solid PE insulation. Stranded in star quads. Armoured moisture barrier sheath. Underground cables used in telephone distribution network. This sheath is resistant to rodents.

CONSTRUCTION

- ***Conductors***: Annealed copper, diameters 0.4, 0.6 and 0.8 mm.
- ***Insulation***: Solid PE.
- ***Cabling elements***: Star quads.
- ***Lay-up***. Stranded in layers up to 28 pairs. From 28 pairs in units. Lay-up and colour code according to UTE C 93-526.
- ***Core wrapping***. Longitudinal dielectric tape applied with overlap.
- ***Screen***. Copolymer coated aluminium tape longitudinally applied with overlap and bonded to the sheath. Continuity tinned copper wire.
- ***Inner sheath***: Polyethylene.
- **Armour:** Two steel tapes with a thickness of 0.2 mm applied helically, so that the outer tape covers the gap left by the inner one.
- ***Outer sheath:*** UV resistant black PE.
- ***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.*

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Certified Company **ISO 9001** - **ISO 14001**

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ELECTRICAL CHARACTERISTICS (20ºC)	0,4	0,6	0,8
Conductor resistance (Ω/km)			
• Maximum individual value	150	66.6	36.8
• Maximum average value	144	63.9	35.3
Resistance unbalance 100x(R_{max}-R_{min})/(R_{max}+R_{min})			
• Max 95 % of pairs	-	-	1 %
• Max 100 % of pairs	-	-	2 %
Minimum insulation resistance (MΩxkm, 20ºC, 500 V)		5000	
Mutual capacitance (nF/km, 1000 Hz)			
• Maximum individual	62.5 (4 pairs)/ 57.5 (8 pairs and above)		
• Maximum average	55 (28 pairs)/ 52.5 (more than 28 pairs)		
Capacitance unbalance (pF/300m, 1000 Hz)			
In the quad			
Average	70	70	35
95 %	200	200	100
Maximum	300	300	150
Between quads			
Average	30	30	15
95 %	100	100	50
Maximum	150	150	75
Maximum Unbalance pair to ground	-	-	600
Dielectric strength (Vdc, 1 min)			
conductor – conductor	600	1150	1500
conductor– screen	1500	1500	2250

MECHANICAL CHARACTERISTICS

Temperature range: from -25º C to +75º C

Minimum bending radius: 20 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 0.60 mm

Code	# Quad.	Cable diam (mm)	Weight approx. (kg/km)	Length (m)	Drum
EA5503060000400N	4	13,7	229	600	BBBM000
EA5503060000700N	7	14,4	279	600	BBBM000
EA5503060001400N	14	17,0	412	600	BBBM000
EA5503060002800N	28	20,8	652	600	BDBM000
EA5503060005600N	56	26,3	1.101	600	BEBM000
EA5503060011300N	113	34,3	1.980	600	BFBM000

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