

## SERIE 74. QUADDED WATERPROOF CABLES FOR THE DISTRIBUTION NETWORK



Telecommunication  
cable



Water blocked



UV resistant



ROHS  
compliant

### STANDARDS

Construction : UTE C 93-526 and UTE C 93-527-1

### DESCRIPTION AND APPLICATION

Telecommunication cables from 8 to 1792 pairs (4-896 quads). Copper conductors of 0.4, 0.6 and 0.8 mm, solid PE insulation (0.4 mm) or double layer (0.6 and 0.8 mm). Stranded into star quads. Filled with petroleum jelly, screened with a longitudinal corrugated aluminium tape with a tinned copper continuity wire and protected with an outer sheath of polyethylene. Cables for direct burial or in ducts in the telephone network distribution.

### CONSTRUCTION

- **Conductors:** Red copper. Nominal diameter of 0.4, 0.6 and 0.8 mm.
- **Insulation:** HDPE solid (0.4 mm) or double layer (0.6 and 0.8 mm).
- **Cabling elements:** Star quads.
- **Lay-up:** Concentric assembly below 28 pairs; from 28 pairs stranded into units. Identification in accordance with standard UTE C 93-526.
- **Core wrapping.** Longitudinal waterproof material applied with overlap.
- **Shield:** Longitudinal corrugated aluminium tape applied with overlap with a tinned copper continuity wire.
- **Outer sheath:** Black LDPE, UV resistant.
- **Sheath marking** : The outer sheath shall be embossed, at regular intervals with the following information:
  - *Name of Manufacturer / year / Length markings*
  - *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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<b>ELECTRICAL CHARACTERISTICS (20°C)</b>	0,4	0,6	0,8
<i>Conductor resistance (Ω/km)</i>			
• Individual value	150	66.6	36.8
• Average	144	63.9	35.3
<i>Resistance unbalance <math>100 \times (R_{max} - R_{min}) / (R_{max} + R_{min})</math></i>			
• Max 95 % of pairs	-	-	1 %
• Max 100 % of pairs	-	-	2 %
<i>Insulation resistance (MΩxkm, 20°C, 500 V)</i>		1500	
<i>Mutual capacitance (nF/km, 1000 Hz)</i>			
Maximum		62.5 (4 pairs)/ 57.5 (8 pairs and above)	
Average		55 (28 pairs)/ 52.5 (more than 28 pairs)	
<i>Capacitance unbalance (pF/300m, 1000 Hz)</i>			
<u>In the quad</u>			
Average	70	70	35
95 %	200	200	100
Maximum	300	300	150
<u>Between quads</u>			
Average	30	30	15
95 %	100	100	50
Maximum	150	150	75
<u>Pair-ground maximum</u>	-	-	600
<i>Dielectric strength (Vdc- 1min)</i>			
conductor – conductor	600	1150	1500
conductor– screen	1500	1500	2250

### MECHANICAL CHARACTERISTICS

Temperature range: from -25° C to +70° C

Minimum bending radius: 12 x R<sub>cable</sub>

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### SIZE, DIMENSIONS AND WEIGHTS

Diameter : 0.40 mm					
Code	# Quads	Cable diam. (mm)	Weight (kg/km)	Length (m)	Drum
EA6B04040000402N	4	12.0	110	600	BABM000
EA6B04040000702N	7	13.0	135	600	BBBM000
EA6B04040001402N	14	15.2	205	600	BBBM000
EA6B04040002802N	28	18.4	330	600	BCBM000
EA6B04040005702N	56	22.9	570	600	BDBM000
EA6B04040011402N	112	30.0	1050	600	BFBM000
EA6B04040022802N	224	38.9	1950	600	BGBM000
EA6B04040045402N	448	51.6	3670	600	BHBM000
EA6B04040090302N	896	70.0	7100	300	BJBM000

Diameter : 0.60 mm					
Code	# Quads	Cable diam. (mm)	Weight (kg/km)	Length (m)	Drum
EA6B04060000402N	4	13.5	160	600	BBBM000
EA6B04060000702N	7	15.0	200	600	BBBM000
EA6B04060001402N	14	17.5	320	600	BCBM000
EA6B04060002802N	28	22.5	560	600	BDBM000
EA6B04060005602N	56	28.5	1000	600	BFBM000
EA6B04060011302N	112	36.5	1870	600	BGBM000
EA6B04060022602N	224	48.0	3510	300	BFBM000
EA6B04060045102N	448	67.0	6950	300	BHBM000

Diameter : 0.80 mm					
Code	# Quads	Cable diam. (mm)	Weight (kg/km)	Length (m)	Drum
EA6B04080000702N	7	17.5	290	600	BBBM000
EA6B04080001402N	14	21.0	510	600	BDBM000
EA6B04080002802N	28	27.0	905	600	BEBM000
EA6B04080005602N	56	35.5	1680	600	BGBM000
EA6B04080011302N	112	47.5	3230	600	BGBM000

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