

MULTIPAIRS CABLES IN ACCORDANCE TO TELECOM-I STANDARD CT 1394

MECHANICAL CHARACTERISTICS

Conductor

Material: Tinned copper

Dimension: Ø 0,50 mm

Insulation

Material: Polyethylene (colour of the pairs blue - white)

Dimension: Ø 1,4 mm (Ø 1,8 mm for version X)

Drain wire

Material: Tinned copper

Dimension: Ø 0,50 mm

1° shield

Material: Aluminum/polyester tape

Jacket

Material: LSZH

Dimension: Ø 4,0 mm (Ø 5,0 mm for version X)

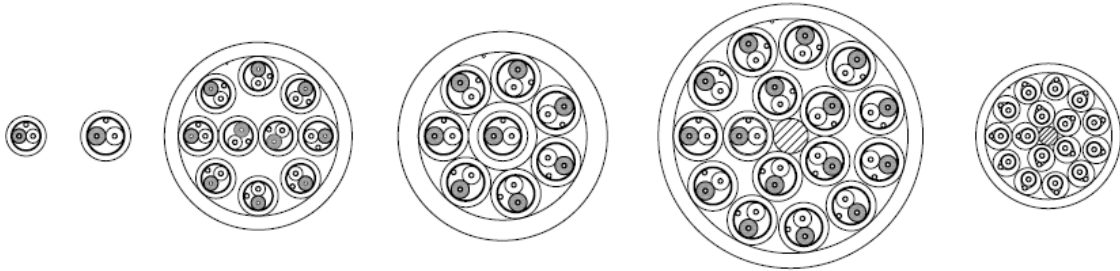
For multipairs cable assembling overall polyester tape + overall LSZH sheath see table 1

ELECTRICAL CHARACTERISTICS AT 20 °C

	TEHM 16x1x0,5/M	TEH 1x2x0,5/M TEHM 10x2x0,5/M	TEH 1x2x0,5/M/X TEHM 8x2x0,5/M/X TEHM 16x2x0,5/M/X
Mutual capacitance at 800 ÷ 1.000 Hz:	≤ 130 pF/m	≤ 60 pF/m	≤ 45 pF/m
Unbalance capacitance at 800 ÷ 1.000 Hz:	—	≤ 500 pF/500m	≤ 500 pF/500m
Nominal characteristic impedance:	—	120 Ω (60÷300 kHz)	120 Ω (2 MHz)
Attenuation at 1 MHz:	—	—	≤ 1,9 dB/1.000m
Crosstalk:	—	≥ 80 dB (300 kHz)	≥ 90 dB (2 MHz)

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TABLE 1		
Description	External Ø (mm)	Nominal weight (kg/km)
TEH 1x2x0,5/M	4	18
TEH 1x2x0,5/M/X	5	25
TEHM 10x2x0,5/M	17	235
TEHM 8x2x0,5/M/X	18,5	275
TEHM 16x2x0,5/M/X	26,5	410
TEHM 16x1x0,5/M	14	200



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Conductor

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Dimension: Ø 0,50 mm

Insulation

Material: Polyethylene (colour of the pairs blue - white)

Dimension: Ø 1,4 mm (Ø 1,8 mm for version X)

Drain wire

Material: Tinned copper

Dimension: Ø 0,50 mm

1° shield

Material: Aluminum/polyester tape

Jacket

Material: LSZH

Dimension: Ø 5,0 mm (Ø 6,0 mm for version X)

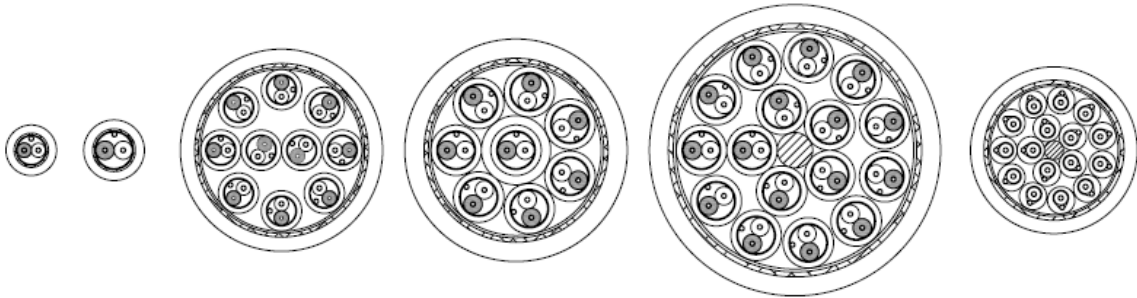
For single pair and multipairs cable assembling overall aluminum/polyester/aluminum tape and tinned copper + overall LSZH sheath see table 2

ELECTRICAL CHARACTERISTICS AT 20 °C

	TEHM 16x1x0,5/HH2M	TEHH2 1x2x0,5/M TEHM 10x2x0,5/ HH2M	TEHH2 1x2x0,5/M/X TEHM 8x2x0,5/HH2M/X TEHM 16x2x0,5/HH2M/ X
Mutual capacitance at 800 ÷ 1.000 Hz:	≤ 130 pF/m	≤ 60 pF/m	≤ 45 pF/m
Unbalance capacitance at 800 ÷ 1.000 Hz:	—	≤ 500 pF/500m	≤ 500 pF/500m
Nominal characteristic impedance:	—	120 Ω (60÷300 kHz)	120 Ω (2 MHz)
Attenuation at 1 MHz:	—	—	≤ 1,9 dB/1.000m
Crosstalk:	—	≥ 80 dB (300 kHz)	≥ 90 dB (2 MHz)
Transfer impedance at 1 ÷ 30 MHz:	≤ 10 m Ω/m	≤ 10 m Ω/m	≤ 10 m Ω/m

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TABLE 2		
Description	External Ø (mm)	Nominal weight (kg/km)
TEHH2 1x2x0,5/M	5	28
TEHH2 1x2x0,5/M/X	6	36
TEHM 10x2x0,5/HH2M	20	305
TEHM 8x2x0,5/HH2M/X	21	370
TEHM 16x2x0,5/HH2M/X	28	510
TEHM 16x1x0,5/HH2M/M	16,5	250



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