

Code : 612T0015
Description : TCE2HH2M-4(0,4/1,9)/M Grey
Inner Conductor

		<i>u/m</i>
Material	Solid Tinned Copper	
Diameter	0,40 ± 0,01	mm
Nominal Section	0,126	mm ²

Dielectric

		<i>u/m</i>
Material	Cellular Polyolefin or Foam-Skin	
Colour	Natural	
Diameter	1,90 ± 0,08	mm

Outer Conductor

	<i>I°</i>	<i>II°</i>	
Material	Aluminum/Polyester/Aluminum (nominal thickness 65μ)	Tinned Copper	
Diameter of strands	-	0,10	mm
Type of shield	Tape - (Longitudinal)	Braid	
Coverage	100 - (overlap ≥ 4mm)	≥ 80	%

Sheath

		<i>u/m</i>
Material	LSZH	
Colour	Grey Ral 7001 Numbered 1 ÷ 4	
Overall Diameter	3,10 ± 0,10	mm
Average Thickness	0,25	mm

**4 elements assembled in layer around a central LSZH filler.
Synthetic foil overlapped as protection.**

Sheath

		<i>u/m</i>
Material	LSZH	
Colour	Grey Ral 7001	
Max Overall Diameter	9	mm
Average Thickness	0,50	mm

Marking : **TECNIKABEL (*) – ITALY – (Month / Year) – TCE2HH2M-4(0,4/1,9)/M –
TELECOM-I CT 1320 – CEI 20-37 – CEI 20-22 III – CE – Eca - metric marking**

(*) = Production site:
(A) = Almese
(V) = Volpiano

Code : 612T0015**Description : TCE2HH2M-4(0,4/1,9)/M Grey*****Electrical Characteristics***

- Resistance of the inner conductor at 20°C : $\leq 145 \Omega/\text{km}$
- Resistance of the outer conductor at 20°C : $\leq 25 \Omega/\text{km}$
- Test Voltage (Between conductor and shield) : 2000 Vd.c. x 1 minute
- Insulation Resistance at 20°C : $\geq 10 \text{ G}\Omega \times \text{km}$
- Nominal Capacitance at 800 ÷ 1000 Hz : 60 pF/m
- Characteristic Impedance at 1 MHz : $75 \pm 3 \Omega$

- Worst echo corrected : $\geq 40 \text{ dB}$ for the 90% of the lenght
35 ÷ 40 dB for the 10% of the lenght

- Attenuation at 1 MHz : 2 dB/100m
4 MHz : 4 dB/100m
17 MHz : 8 dB/100m

- Near-End Crosstalk 0,3 ÷ 1 MHz : $\geq 70 \text{ dB}$
1 ÷ 30 MHz : $\geq 80 \text{ dB}$

- Transfer Impedance at 1 ÷ 30 MHz : $\leq 10 \text{ m}\Omega/\text{m}$

Fire Performance

- Halogen acid gas emission $\leq 0,3 \%$ when tested accordance to CEI 20-37/2-1 (EN 50267-2-1)
- Degree of acidity of gases evolved during of the combustion (pH value $\geq 4,3$ and Conductivity $\leq 10 \mu\text{S}/\text{mm}$) when tested accordance to CEI 20-37/2-2 - CEI 20-37/2-3 (EN 50267-2-2 - EN 50267-2-3).
- Smoke emission (Transmittance) $\geq 45 \%$ when tested accordance to CEI 20-37/3-0 - CEI 20-37/3-1 (IEC 61034-1 - IEC 61034-2).
- Toxicity of evolved gas $\leq 2 \%$ when tested accordance to CEI 20-37/7 (Similar to but not equivalent to Nes 713)
- Fire propagation complying with CEI 20-22/3 (IEC 60332-3)
- CPR Classification: Eca

Technical Office***BENTIVOGLIO Davide******Date*****04/06/01 Rev.1
12/05/00**