Tecni Kabel srl	**Technical Specification**	**N° T02177**

Code : 508E0022	**Description : FE[5x(4x2xAWG28)N]N/SN/ST/M Blue**

Conductor

		u/m
Material	Tinned Copper	
Construction	7 x 0,127	mm
Nr of conductors	40 (20 pairs)	
Nominal Section	0,09 (AWG28)	mm²

Insulation

		u/m
Material	High Density Polyethylene	
Overall Diameter	0,70 Nominal	mm
Colour of the pairs each groups	Conductors assemblied in groups (5) (length of lay left hand about 83mm), each of them composed by 4 pairs. Each groups tied by means of a (1 ÷ 5) numbered tape : 1. White – Blue (length of lay left hand about 40mm) 2. White – Orange (length of lay left hand about 47mm) 3. White – Green (length of lay left hand about 40mm) 4. White – Brown (length of lay left hand about 47mm)	

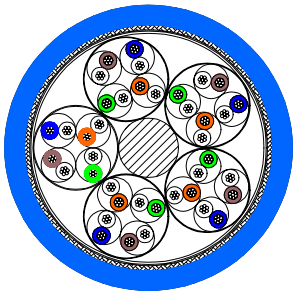
The 5 groups are assemblied with a central filler (length of lay left hand about 170mm).
Total laiyd-up protective by Mica Tape (Fire Barrier)

Shield

	I°	***II°***	*u/m*
Type of shield	Tape	Braid	
Material	Aluminum/Polyester	Tinned Copper	
Coverage	100	≥ 75	%

Sheath

		u/m
Material	LSZH Polyolefine Compound (UV Resistant) (Cern Tis n° 1083)	
Colour	Blue Ral 5015	
Max Outer Diameter	10	mm
Marking : TECNIKABEL (TO) – ITALY – CERN 04.71.06.400.0 – Zero halogen – IEC 60332-1 – (Month / Year) – (Metric Marking) m		



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Electrical Characteristics

- Resistance of Conductor at 20°C	: ≤ 220 Ω/km
- Insulation Resistance at 20°C	: ≥ 1 GΩxkm
- Capacitance (800Hz ÷ 1000Hz)	: ≤ 49 pF/m
- Characteristic Impedance at 1 ÷ 100 MHz	: 110 ± 10Ω
- Propagation Delay	: ≤ 510 ns/100m
- Skew time delay among all the pairs of the cable	: ≤ 1 ns/25m
- Test Voltage	: 1 kVd.c. (cond./cond. – cond./shield)
- Operating Voltage	: 150Vrms

- Frequenzy	150 kHz	300 kHz	1 MHz
- Attenuation (dB/100m)	T.B.M.	T.B.M.	T.B.M.

- Frequenzy	125 kHz	300 kHz	1 MHz
- Cross-Talk (dB)	T.B.M.	T.B.M.	T.B.M.

Other Characteristics

- Operating Temperature	: - 65°C ÷ + 70°C
- Nominal weight	: 120 kg/km

Fire Performance

- Cable Radiation Resistant according to IEC 60544/2-4 – Cern IS 23 Rev.2 and TIS IS 41
- Halogen acid gas emission ≤ 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 ≥ 4,3 and Conductivity ≤10μS/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) ≥ 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 ≤ 2 when tested accordance to CEI 20-37/7 (Similar to but not equivalent to Nes 713)
- Oxygen Index ≥ 30 % when tested accordance to CEI 20-22/4 (IEC 60332 B).
- Flame propagation complying with CEI 20-35/1 (IEC 60332.1)

Technical Office	***Date***
Davide BENTIVOGLIO	**09/05/05 Rev.2** **28/04/05 Rev.1** **15/11/04**

For Further information on this product or any other product whithin our range, or for any advice, Please contact
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