

**Description : FE(14x0,14)ccST/M Red 4,5kV****Conductor**

		<i>u/m</i>
Material	Tinned Copper	
Construction	7 x 0,16	mm
Nominal Section	0,14 (AWG26)	mm <sup>2</sup>

**Insulation**

		<i>u/m</i>
Material	High Density Polyethylene ( Cern Tis n° 790 )	
Colours	<i>Natural Numbered 1 ÷ 14 in Black</i>	
Nominal Diameter	1,50	mm

*The 14 elements assembled in layers.Total laiyd-up protective by Polyester/Glass/Polyester Tape.*

**Shield**

		<i>u/m</i>
Material	Tinned Copper	
Type of shield	Braid	
Diameter of strands	0,15	mm
Coverage	≥ 75	%
Drain Wire	Tinne Copper AWG26 under braid	%

**Sheath**

		<i>u/m</i>
Material	LSZH Polyolefine Compound ( UV Resistant ) ( Cern Tis n° 954 )	
Colour	Red Ral 3000	
Overall Diameter	9,4	mm
Marking : <b>TECNIKABEL (TO) – ITALY – ( YearWweek ) – 14x0,14 – (Metric Marking) MT</b>		
<b>( YearWweek ) = Year 2006 – Week 18 - Example = 06W18</b>		

**Fire Performance**

- 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) ≥ 60 % 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)
- Fire propagation complying with CEI 20-22/3-4 (EN 50266/2-4 - IEC 60332-3-24 Cat.C)

**Description : FE(14x0,14)ccST/M Red 4,5kV*****Other Characteristics***

- Temperature Range :  $\leq +80^{\circ}\text{C}$
  - Resistance of the conductor at 20 °C :  $\leq 139 \Omega/\text{km}$
  - **Insulation Resistance at 20°C** :  **$\geq 10 \text{ M}\Omega\cdot\text{km}$**
  - Dielectric Strength : 25 kV d.c.
  - Test Voltage : 15 kV d.c.
  - Operating Voltage : 4,5kV d.c.
  - Static Bending Radius : **90 cm**
  - Nominal Weight : 130 kg/km
- Cable Radiation Resistant according to IEC 60554/2-4 – Cern IS 23 Rev.2 and TIS IS 41
- The radiation resistance of each cable must extend to an accumulated dose of 100 kGy.

**Insulation :**

- Tensile strength ( initial ) : 25 MPa
- Elongation break at 100 kGy :  $\geq 110\%$

**Sheath :**

- |                                | <u>Dose</u> | <u>Dose 100 Gy</u> |
|--------------------------------|-------------|--------------------|
| - Tensile strength ( initial ) | : 8 MPa     | 50% initial value  |
| - Elongation                   | : 200 %     | 50% absolute value |
| - Dielectric strength          | : 100%      | 75% initial value  |

***Technical Office******Date******Rev.01 Added insulation resistance and changed static bendino radius******30/05/2011******BRUNI LEONARDO******25/05/2011***

For Further information on this product or any other product within our range, or for any advice, Please contact **Tecnikabel s.r.l.**, Via Brandizzo 243, 10088 - Volpiano (TO), Italy ☎ 011-9951997, Fax 📠 011-9953062  
All information on this sheet is believed to be reliable. Users should however consult Tecnikabel s.r.l.  
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