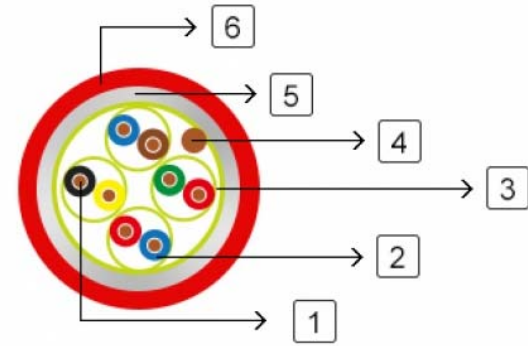


**Fire resistant FTP Cat3 Data Cables**



**FR-CAT3FTP 4P22FR**

<b>Application:</b>	The cables are designed for structure wiring, compatible with all known connection systems according to EN 50173. Based on the design for structured wiring (found in IEC 61156 and BS EN 50288), this cable brings together high frequency data transmission and circuit integrity in a one pair, two pair and four pair cable that will continue to transmit data even when being directly attacked by fire.
<b>STANDARDS:</b>	Basic design to EN 50173
<b>VOLTAGE RATING:</b>	60V
<b>FIRE PERFORMANCE</b>	
<b>Circuit Integrity</b>	IEC 60331-23; BS 6387 CWZ; DIN VDE 0472-814(FE180); CEI 20-36/2-1; SS229-1; NBN C 30-004 (cat. F3); NF C32-070-2.3(CR1)
<b>System circuit integrity</b>	DIN 4102-12, E30 depending on lay system
<b>Flame Retardance (Single Vertical Wire Test)</b>	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
<b>Reduced Fire Propagation (Vertically-mounted bundled wires &amp; cable test)</b>	EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4
<b>Halogen Free</b>	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*
<b>No Corrosive Gas Emission</b>	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*
<b>Minimum Smoke Emission</b>	IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2*; BS 7622-1&2*
<b>No Toxic gases</b>	NES 02-713; NF C 20-454

Note: Asterisk \* denotes superseded standard.

**CABLE CONSTRUCTION**

Conductors: Plain annealed copper wire, sized 0.64mm and solid according to IEC(EN) 60228 class 1.

Insulation: PE wrapping with fire resistant silicone rubber compound type EI2 as per BS 7655-1.1.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk. Two-pair cable had four cores laid in quad formation.

Cabling: Pairs are cabled together in concentric layer.

Overall Screen: Aluminum/polyester tape with tinned copper drain wire

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.)

**COLOUR CODE**

Sheath Colour: Red, white or black

**Physical AND THERMAL PROPERTIES**

Temperature range during operation (fixed state): -20°C - +90°C

Temperature range during installation (mobile state): -5°C - +50°C

Minimum bending radius: 8 x Overall Diameter

**Electrical Properties**

<b>Characteristic Impedance</b>	100 Ohm±15%
<b>Nominal Velocity Of Propagation (NVP)</b>	69%
<b>Max. Dc Resistance</b>	5.8 Ohm/100m
<b>Max. Resistance Unbalance</b>	5%

<b>Max. Propagation Delay Skew</b>	30 ns/100m
<b>Max. Propagation Delay</b>	536 ns/100m@100 mhz
<b>Max. Pulling Load</b>	80N

FREQ (MHz)	NEXT(dB/100m) Minmum Value/Typical Value/Standard Value	IL (dB/100m)	SRL(dB/100m) Minmum Value/Typical Value/Standard Value
1	43.0/48.0/41.0	2.6	13.0/16.0/12.0
4	34.0/38.0/32.0	5.6	13.0/16.0/12.0
8	29.0/33.0/26.0	8.5	13.0/16.0/12.0
10	28.0/33.0/26.0	9.8	13.0/16.0/12.0
16	25.0/30.0/23.0	13.1	11.0/14.0/10.0

**CONSTRUCTION PARAMETERS**

Cable Code	Nominal Insulation Thickness	Nominal Overall Diameter	Approx. Weight
	mm	mm	kg/km
FR-CAT3FTP1P22FR	0.25	6.8	48
FR-CAT3FTP2P22FR	0.25	8.1	97
FR-CAT3FTP4P22FR	0.25	10.4	122