

CIRCUIT INTEGRITY DATA CABLE

Circuit Integrity Structured Wiring Alarm cable. 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), Firetuf Data 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.

Firetuf Data has successfully passed BS 5839: 2002 test protocols. This patented design allows the continuation of data transmission in the event of a fire.

Firetuf Data has three designs: one, two and four pair construction all using the same wire size of 0.63mm, overall screened plus a drain wire and braided.

Physical Characteristics

Min. Installation Bend Radius:	8 x Dia.
Min. Fixed Bending Radius:	6 x Dia.
Installation Temp. Range:	0°C to 50°C.
Installed Operating Temp. Range:	-20°C to 60°C.

Electrical Characteristics @ 20°C

Structural Return Loss RI:	>IEC dB.
Characteristic Impedance @ 10MHz:	100±5Ω.
DC Conductor Loop Resistance:	<19Ω/100m.
Max. Resistance unbalance:	≤2%.
Nominal Velocity of Propagation:	57%.
Max. Capacitance unbalance:	1600 pF/km.
Insulation Resistance (500V):	≥5000 MΩ.km.

Standards Achieved

ISO/IEC 11801:1994; EN 50173:1995; EN 50288-2-1

Circuit integrity: BS 5839-1:2002 Clause 26.2e Enhanced
BS 8434-2:2003
BS EN 50200 >PH120
IEC 60331-23
BS 6387 C

Flame propagation: UL 1581 VW1; BSEN 60332-3

Acid gas emission: IEC 60754

Smoke emission: IEC 61034

Cable	Part No.	Nominal Diameter mm	Approx weight kg/km
1 pair	910234	6.8	48
2 pair	910244	8.1	97
4 pair	910245	10.45	122

More detailed data sheets available upon request.

