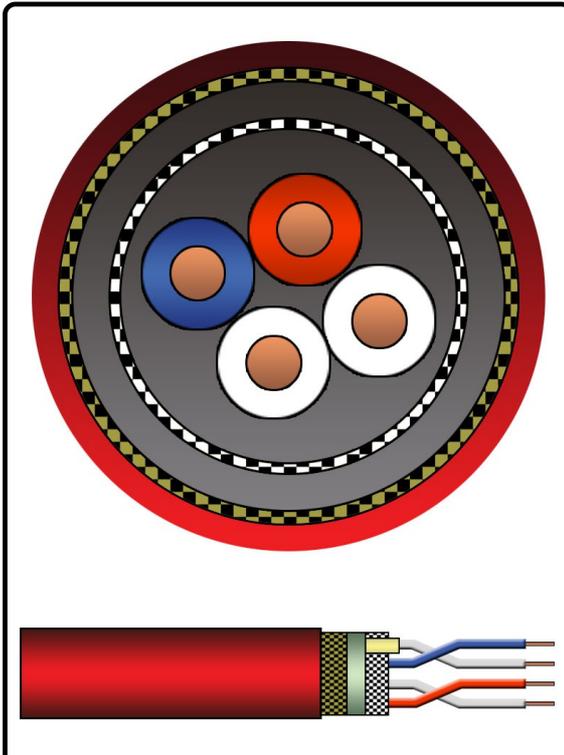




2PRJS/984 2 Hour (CI) Rated Communication Cable



APPLICATION

Campus Wiring, Riser Applications, Horizontal Backbone Wiring, Building Control Systems, Intelligent Fire Alarm Systems. Circuit integrity structured wiring alarm cable compatible with all known connection systems to EN 50173.

STANDARDS

- IEEE 802.3: 10Base-T; (100Base-T <75m), IEEE 802.5 16 MB; ISDN; TPDDI; ATM RS485 (10Mbits)
- Generally to ISO/IEC 11801: 95, EN 50173:95; EN 50288-1
- Generally categorized between Cat 3 and Cat 5 (see notes 1, 2, 3, 4, 5)
- Passes - ISO/IEC 11801 class D (95); TIA Cat 5 Ch (TSB67); ISO/IEC 11801 Class C

CERTIFICATION

- Fire resistant BS5839-1 (clause 26.2e); BS8434-2; BSEN 50200
- Flame retardant BS4066 part 3; Smoke emission BSEN 20568
- LUL-Flammability, smoke and fume 2-01001-002

ELECTRICAL DATA

FLAME RESISTANCE

Footage:	300m (approx. 984 feet) - also available in 100m quantity (model #2PRJS/328 - approx. 328 feet)
Low Smoke:	BSEN 20568, IEC 61034-2, BSEN 20568
Halogen Free:	IEC 60754-1&2
Flame Retardant:	IEC 60332-1, IEC 60332-3-24, BS4066 part 3
Circuit Integrity:	BS5839-1 2002 (clause 26.2e); BS8434-2; BSEN 50200, IEC60331

BS5839 enhanced 3 in 1 test	PASSED
Continued data operation @ 950°C	> 2 hours
BS6387 CWZ	PASSED
BS EN 50200 (IEC60331)	>3 hours

CONSTRUCTION

Conductor	Bare copper wire, Ø 0.65 mm (AWG 22) 0.332mm ²
Insulation	PE/Silicone Rubber ¹ , Ø PE 1.0mm and Silicone Rubber 1.7mm
Twisting	2 cores to the pair
Cable Lay Up	2 pairs to the core
Fire Protection Wrapping	Glass Tape
Screen	Stranded drain wire + Al-PET-foil + copper braid, tinned
Sheath	Halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, Ø 8.2 mm
Color	Red RAL 3000

MECHANICAL PROPERTIES

Bending Radius:	Without load: ≥ 32.5 mm With load: ≥ 65 mm
Temperature Range:	During operation: -20°C to + 60°C During installation: 0°C to + 50°C

Nominal acc. to Cat.5 (at 20°C)

NOTES

- 1 - Silicone rubber insulation especially for circuit integrity cables
- 2 - Structured cabling Characteristic Impedance is normally within (100 ± 5) , due to the insulation system this is not achievable all the time
- 3 - Structured cabling systems minimum for $c=65\%$, due to the insulation (PE + Sil Rbr) system this is not achieved, that is nvp 0,57
- 4 - Cat5 (95) specification: not the Cat5e of today i.e. gigabit ethernet
- 5 - When used in a 100m Channel, 90m + 10m patch cords, the Class D (95) is fit for some purposes: it is advisable to approve a 100m sample and perform a trial on the system before installation

ELECTRICAL PROPERTIES AT 20°C ± 5°C

Loop Resistance		\leq 110Ω/km
Resistance Unbalance		\leq 2%
Insulation Resistance	(500 V) 1 minute	\leq 2000 M Ω *km
Mutual Capacitance	At 800 Hz	Nom. nF/km
Capacitance Unbalance	(Pair/Ground)	\geq 1600 pF/km
Characteristic Impedance	(At 10) MHz	(100 ± 15) Ω
Nominal Velocity of Propagation		ca. 57%
Test Voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer Impedance	At 10 MHz	5 m Ω /m

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