

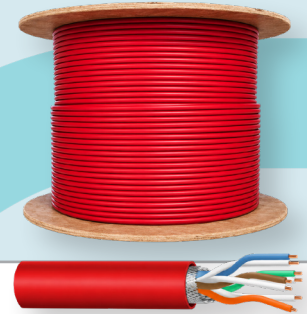
# RP6600100M4 / RP6600300M4

2 Hour Fire-Rated Cable 22-8 AWG CI



## Fire-rated cable for critical life safety communications.

- Maintains critical communication circuits during fire conditions.
- 2-hour fire-rated construction for life safety applications.
- Shielded 4-pair cable supports IP-based communication systems.
- High-performance design supports voice and data transmission.
- Suitable for horizontal and vertical installations



## Specifications

	RP6600100M4	RP6600300M4
Length	328 ft	984 ft
Weight	31.0 lbs / 95.0 lbs per kft	94.0 lbs / 95.0 lbs per kft
Nominal Diameter	0.397"	
Temperature	During Operation: -4 - 140°F (-20 - 60°C) During Installation: 32 - 284°F (0 - 50°C)	
Bending Radius	Without Load: ≥ 42.0 mm With Load: ≥ 84.0 mm	
Conductor	Bare Copper Wire, Ø 0.65 mm (22 AWG) 0.332 mm <sup>2</sup>	
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	Red RAL 3000, Halogen Free, Flame Retardant Thermoplastic Sheathing Compound Acc. to EN 50290-2-27, Ø OD - 10.5 mm	
Insulation	PE/Silicone Rubber1, Ø PE 1.0 mm And Silicone Rubber 1.7 mm	
Marking	Firetuf Data (910245) 0.65 mm x 4 pairs BS5839 + 26.2e Draka UK (then 105 spaces then) Firetuf Data (910245) 0.65 mm x 4 pairs BS5839 + 26.2e Draka UK DD/MM/YY XXXX #####m	

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## Electrical Properties at 20°C ± 5°C

	RP6600100M4	RP6600300M4
Loop Resistance	≤ 110 Ω/km	
Braid Resistance	9.9Ω/Km	
Drain Wire + Braid Resistance	(78Ω/Km (w/Braid = 8.79Ω/Km)	
Resistance Unbalance	≤ 2%	
Insulation Resistance	(500 V) 1 minute : ≥ 2000 MΩ*km	
Mutual Capacitance	800 Hz Nom. 60 nF/km	
Capacitance Unbalance	(Pair/ground) ≤ 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 (100 ± 15) Ω	
Current Carrying Capacity Per Pair	AC 2.0 Amps DC 2.5 Amps	
Voltage Drop Single Phase /DC	15 mV/A/m	

## Standards & Certifications

	RP6600100M	RP6600300M
Performance Standards	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	
Low Smoke	BSEN 50268, IEC 61034-2	
Halogen Free	IEC 60754-1&2	
Flame Retardant	IEC 60332-1, IEC 60332-3-24, BS4066 part 3, UL 1581 VW 1	
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	
Certifications	Approved by LU (London Underground) – Independently Tested By BRE Global Fire Retardant BS5839-1 (Clause 26.2e); BS8434-2; BSEN 50200 Flame Retardant BS4066 Part 3; Smoke Emission BSEN 20568 LUL-Flammability, Smoke & Fume 2-01001-002 LU STANDARD e4156 Part 1 – Approval ref TLL-ENG-MATTS-0076 (6/21/2007)	