

## ICT RS-485/OSDP Access Control Cable (FT4 Rated)

Specifically designed for access control applications, this RS-485 cable includes 18 AWG conductors for power supply and a 24 AWG shielded, twisted pair and drain wire for data transmission. It is ideal for use with the Protege module network, ICT readers and OSDP readers. The cable offers a robust FT4 fire and smoke rating.

### Technical Specifications

Ordering Information	
RS-485/OSDP Access Control Cable (FT4 Rated), 1000ft box	ICT-RS485-FT4
Power Wires (18AWG)	
Colors	Red, Black
Conductor Material	TC
Conductor Construction	7 × 0.39mm (0.015")
Insulation Material	HDPE
Insulation Diameter	1.8mm (0.071")
Insulation Thickness	0.30mm average, 0.25mm minimum (0.012" average, 0.010" minimum)
Data Wires (24AWG)	
Form	Shielded twisted pair
Colors	Yellow, Purple
Conductor Material	TC
Conductor Construction	7 × 0.20mm (0.0079")
Insulation Material	HDPE
Insulation Diameter	2.0mm (0.079")
Insulation Thickness	0.70mm average, 0.60mm minimum (0.028" average, 0.024" minimum)
Shield Material	AL/PET
Drain Wire	
Drain Wire Material	TC
Drain Wire Construction	7 × 0.20mm (0.0079")
Jacket	
Jacket Color	White
Jacket Material	PVC
Jacket Diameter	6.0mm (0.23")
Jacket Thickness	0.50mm average, 0.40mm minimum (0.020" average, 0.016" minimum)
Markings	Sequential footage markings printed on the cable at 2 foot increments
Electrical Characteristics	
Direct Current Resistance at 20°C	18AWG: $\leq 21.9\Omega/\text{km}$ 24AWG: $\leq 90.9\Omega/\text{km}$
Characteristic Impedance	120 $\Omega$ ± 15
Maximum Operating Voltage	300V

Operating Conditions	
Operating Temperature	-20° to 75°C (-4° to 167°F)
Dimensions	
Gross Weight	15.0kg (33.1 lb)
Regulatory Standards	
Communications Cable Standard	UL444
Fire and Smoke Ratings	CMR FT4

Designers & manufacturers of integrated electronic access control, security and automation products.  
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