

FEATURES

- Cat5e seven-strand network patch unterminated connector cable
- Double shielded with tape and braid
- Core strands 7/016
- Length of 305m
- Outer diameter of 5.6mm
- Cross-sectional area of 0.14mm²
- Voltage rating of 300V
- AWG 26
- S/UTP shield
- Capacitance of 330pF
- Attenuation of 37.4dB at 100MHz /100Ω over 100m
- Operating temperature of -15°C to +70°C
- Conforms to Euroclass Eca standards

RS PRO Grey PVC Cat5e Cable S/UTP, 305m Unterminated/Unterminated

RS Stock No.: 812-4791



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This 4-pair network patch cable from the RS PRO range is ideal for connecting devices to a local area network (LAN). The Cat5e cable is double shielded to protect the signal from electromagnetic interference, with a screen of aluminised polyester tape (100% coverage) wrapped in a braid screen of 0.1 mm tinned copper (65% minimum coverage).

The 305-metre cable uses stranded bare copper conductors with a cross-sectional area of 0.14 mm² (AWG26). It has an outer diameter of 5.6 mm, is voltage rated at 300 V ac and has an operating temperature range of -15°C to +70°C. It's sheathed in grey, flame-retardant PVC.

General Specifications

Conductor Strand Type	Stranded
Terminated/Unterminated	Unterminated
Connector Type	Unterminated/Unterminated
Shield Type	S/UTP
Outer Sheath Material	PVC
Sheath Colour	Grey
Conductor Material	Bare Copper
Insulator Material	PE
Tape Material	Aluminised Polyester
Tape Coverage	100%
Applications	Horizontal Wiring in LAN

Electrical Specifications

Voltage Rating	300VAC
Capacitance	330pF
Attenuation	37.4dB at 100MHz /100O over 100m
Conductor Resistance	165O/km

Mechanical Specifications

Length	305m
Outer Diameter	5.6mm
Sheath Thickness	0.50mm
Insulator Diameter	0.94mm ((±0.05mm)
American Wire Gauge	26
Cross Sectional Area	0.14mm ²
Size of Strands	0.16mm
Core Strands	7/016

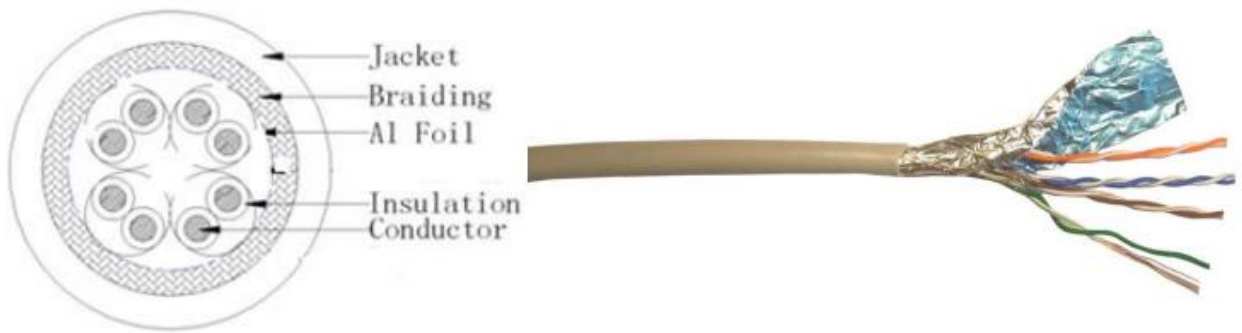
Operation Environment Specifications

Operating Temperature	-15°C to +70°C
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Approvals

Standards Met	ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007, RoHS Compliant, Euroclass Eca standards
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Electrical Characteristics:

Frequency (MHz)	Input Impedance (ohms)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)
1	100 ± 15	20.0	3.4	65.3
4	100 ± 15	23.0	7.0	56.3
10	100 ± 15	25.0	11.1	50.3
16	100 ± 15	25.0	13.9	47.3
20	100 ± 15	25.0	15.6	45.8
31.25	100 ± 15	23.6	19.9	42.9
62.5	100 ± 15	21.5	28.9	38.4
100	100 ± 15	20.1	37.4	35.3

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	SRL (dB)
1	62.3	63.8	60.8	23.0
4	53.3	51.7	48.7	23.0
10	47.3	43.8	40.8	25.0
16	44.3	39.7	36.7	25.0
20	42.8	37.7	34.7	25.0
31.25	39.9	33.9	30.9	23.6
62.5	35.4	27.8	24.8	21.5
100	32.3	23.8	20.8	20.1

Pair-to-Ground Capacitance Unbalance (pF/m): ≤3.3
 Max. Conductor DC Resistance 20°C (ohms/km): 165

Construction:**Conductor: Bare Copper****AWG:26****Cross Sectional Area(mm²): 0.14****Structure(+/-0.01): 7/0.16****Conductor Dia. (mm): 0.48****Insulation: PE****Average Thickness(mm): 0.23****Insulation Dia.(±0.05mm): 0.94****Twisting: 2C****Cabling: 4P****AL-MYLAR: (18mm*0.05mm)****Braid: Tinned Copper****Structure: 12/5/0.10mm****Jacket:PVC****Average Thickness(mm): 0.50****Min. Point Thickness(mm): 0.41****Outer Dia.(±0.3mm): 5.60****Rip Cord: No****Color:****Insulation colors are: Blue,White/Blue Stripe; Orange,White/Orange Stripe
Green,White/Green Stripe;Brown,White/Brown Stripe****Jacket colors: GRAY RAL7035**