FEATURES

- **Designed to deliver robust performance**

- **Ensure optimum bandwidth**

- **Supports horizontal networking applications up to 100m**

RS PRO Purple PVC Cat5e Cable U/UTP, 305m Unterminated/Unterminated

RS Stock No.: 557-159

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

RS Pro Category 5e cables have been designed to deliver excellent performance in high speed network applications. This Cat5e cable exceeds the minimum specified performance and prevents crosstalk helping to keep data safe.

General Specifications

Conductor Strand Type	Stranded
Terminated/Unterminated	Unterminated
Connector Type	Unterminated/ Unterminated
Shield Type	U/UTP
Outer Sheath Material	PVC
Sheath Colour	Purple
Conductor Material	Bare Copper
Insulator Material	HDPE
Fire Behaviour	Low Smoke Zero Halogen (LSZH)
Application	Supports backbone and horizontal networking applications over distances up to 100 metres.

Electrical Specifications

Attenuation	32.0dB/100m
Frequency	100MHz

Mechanical Specifications

Length	305m
Outer Diameter	4.7±0.3 mm
Sheath Thickness	0.55±0.05 mm
Insulator Diameter	0.81mm +/-0.03
American Wire Gauge	24
Core Strands	7/016

Approvals

Compliance/Certifications	2011/65/EU and 2015/863
Standards Met	ANSI/EIA/TIA 568B.2:2002, ISO/IEC 11801:2002, RoHS, REACH.

Sheath Printing	Category 5e UTP 4P Stranded 26AWG LSZH ETL Verified TIA/EIA568 ISO/IEC11801:2002 meter mark		
Category	PATCH U/UTP CAT5e-4P- LSZH		
Test Standard	ISO/IEC11801、TIA/EIA 568B		
1. Conductor	Material	Stranded-Bare Copper	
	Nom. O.D. (mm)	26AWG(7/0.16)	
2. Insulation	Material	HDPE	
	Diameter	0.81±0.03mm	
Color	A.Blue, White-Blue	B.Orange,White-Orange	
	C.Green,White-Green	D.Brown, White-Brown	
3. Rip-cord	Yes	Drain wire	N/A
4. Shielded	N/A		
5. Sheath	Thickness	0.55±0.05 mm	
	External O.D.	4.7±0.3 mm	
	Surface	Clean,Frap,Satiation	
	Material	LSZH	
	Color	Purple (RAL4001)	
Surface Printing	Letter height	3.0±0.3mm	
	Color	Black	
	Print error & Space	≤±0.5%，1m	
Packing	Carton box + pallet		
Carton dimension	35x35x21cm		
Packing length	1000ft / 305m		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)		≥13.5
	Elongation (%)		≥150
	Aging Period (℃×hrs)		100℃×24h×7d
	After Aging Tensile Strength (Mpa)		≥12.5
	Elongation (%)		≥125
	Cold bend (-20±2℃×4h)		No visible cracks
Electrical Characteristics (20℃)	1.0-100.0MHz, Characteristic impedance (Ω)		100±15
	1.0-100.0MHz, Delay Shew 20℃(ns/100m)		≤45
	DC Resistance 20℃(Ω/100m) max		14.8

copper conductor
Insulation
LSZH Jacket
Rip-cord

Technical Performance (100m):

Frequency (MHz)	RL dB	ATT dB	NEXT dB	DELAY ns
1	20.0	3.3	65.3	570.00
4.0	23.0	6.4	56.3	552.00
8.0	24.5	8.7	51.8	546.73
10.0	25.0	9.6	50.3	545.38
16.0	25.0	12.3	47.2	543.00
20.0	25.0	13.6	45.8	542.05
25.0	24.3	15.2	44.3	541.20
31.25	23.6	17.1	42.9	540.44
62.5	21.5	24.8	38.4	538.55
100	20.1	32.0	35.3	537.60

Frequency (MHz)	PSNEXT dB	ELFEXT dB	PSELFEXT dB
1	62.3	63.8	60.8
4	53.3	51.8	48.8
8	48.8	45.7	42.7
10	47.3	43.8	40.8
16	44.4	39.7	36.7
20	42.8	37.8	34.8
25	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.9	24.9
100	32.3	23.8	20.8