



Category 5e U/UTP Cable, Unshielded

Features & Benefits

- Frequency 1-100Mhz, extend to 350MHz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

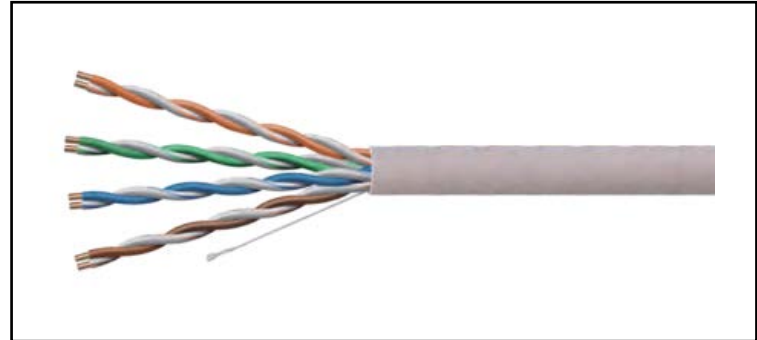
Compliance & Standards

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- IEC 60332
- EN50574
- EN50173-1

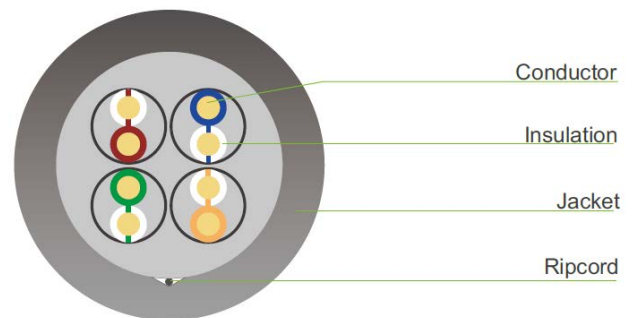
Applications

- 1000Base-T applications
- Data cable for structured premises cabling up to class D and CAT 5e applications
- Digital and analog voice, video and data signal transmission

Drawing



Technical Drawing



Product Specifications

Product Type			U/UTP CAT 5e 4 × 2 × 24AWG
Construction			Dimensions
Conductor	Structure	AWG	24
	Material	-	Solid Bare Copper
Insulation	Material	-	HDPE
Twist	Direction	-	S
Jacket	Material	-	CM, LSZH, PVC, PE, CMR
	Diameter	mm	5.1 ± 0.3
Installation Temperature Range			0° C ~ + 60° C
Operating Temperature Range			- 20° C ~ + 60° C

TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

REV.20200901.1



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Mechanical Performance

Conductor Elongation		$\geq 15\%$
Jacket Before Aging (LSZH)	Tensile Strength	$\geq 10\text{Mpa}$
	Elongation	$\geq 125\%$
Jacket After Aging (LSZH)	Tensile Strength	$\geq 8\text{Mpa}$
	Elongation	$\geq 100\%$
Minimum Bend Radius		8 x Cable Radius

Electrical Performance

DC Resistance Unbalance (%)	$\leq 2.0\%$
DC Resistance 20° C	$\leq 93.8(\text{Ohms/Km})$
Insulation Resistance	$>5000\text{M}\Omega \times \text{Km}$
Dielectric Strength	DC 1000V 1min
Mutual Capacitance	$\leq 5.6 \text{ nF}/100\text{m}$
NVP	69%

Transmission Performance

Freq.	IL	RL	DOP	SKEW	NEXT	PS NEXT	ACR-F	PSACR-F
	dB/100M	dB	ns/100m	Ns/100m	dB	dB	dB	dB
MHz	Max.	Min.	Max.	Max.	Min.	Min.	Min.	Min.
1	2.1	20	570	45	65.3	62.3	63.8	60.8
4	4.1	23	552	45	56.3	53.3	51.8	48.8
10	6.5	25	545	45	50.3	47.3	43.8	40.8
16	8.3	25	543	45	47.2	44.2	39.7	36.7
20	9.3	25	542	45	45.8	42.8	37.8	34.8
31.25	11.7	23.6	540	45	42.9	39.9	33.9	30.9
62.5	17.0	21.5	538	45	38.4	35.4	27.9	24.9
100	22.0	20.1	537	45	35.3	32.3	23.8	20.8

Note: The above transmission performance for the 100M, 20 ± 2 °C under the conditions tested.



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Ordering Information

Part No.	Product Name	Description
SP5514V-GY0305MB	Category 5e U/UTP 4 Pairs Unshielded Cable, PVC	305m/Box_ Gray
SP5514M-GY0305MB	Category 5e U/UTP 4 Pairs Unshielded Cable, CM	305m/Box_ Gray
SP5514R-BL0305MB	Category 5e U/UTP 4 Pairs Unshielded Cable, CMR	305m/Box_ Blue
SP5514L-PU0305MB	Category 5e U/UTP 4 Pairs Unshielded Cable, LSZH	305m/Box_ Purple
SP5514E-BK0305MB	Category 5e U/UTP 4 Pairs Unshielded Cable, PE	305m/Box_ Black