



Category 5e F/UTP Cable, Shielded

Features & Benefits

- Aluminum foil shielded
- 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
- EN50399
- 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

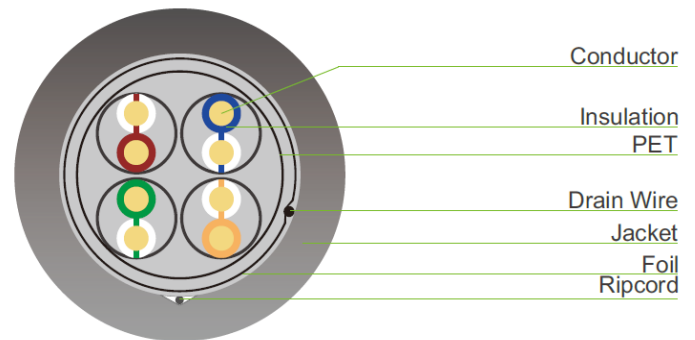
Product Specifications

Product Type			F/UTP CAT 5e 4 × 2 × 24AWG
Conductor	Structure	AWG	24
	Material		Solid Bare Copper
Insulation	Material	-	HDPE
	Diameter	mm	1.06 ± 0.05
Twist	Direction	-	S
Shielding	Material	-	Foil
Jacket	Material	-	CM, LSZH, PVC, PE, CMR
	Diameter	mm	6.2 ± 0.3
Installation Temperature Range			0° C ~ + 60° C
Operating Temperature Range			- 20° C ~ + 60° C

Drawing



Technical Drawing





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Mechanical Performance

Conductor Elongation		≥15%
Jacket Before Aging (LSZH)	Tensile Strength	≥10Mpa
	Elongation	≥125%
Jacket After Aging (LSZH)	Tensile Strength	≥8Mpa
	Elongation	≥100%
Minimum Bend Radius		8 x Cable Radius

Electrical Performance

DC Resistance Unbalance (%)	≤2.0%
DC Resistance 20° C	≤93.8 (Ohms/Km)
Insulation Resistance	>5000M Ω × Km
Dielectric Strength	DC 1000V 1min
Mutual Capacitance	≤5.6 nF/100m
NVP	67%

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
SP5524V-GY0305MD	Category 5e F/UTP 4 Pairs Shielded Cable, PVC	305m/Drum_ Gray
SP5524M-GY0305MD	Category 5e F/UTP 4 Pairs Shielded Cable, CM	305m/Drum_ Gray
SP5524R-BL0305MD	Category 5e F/UTP 4 Pairs Shielded Cable, CMR	305m/Drum_ Blue
SP5524L-PU0305MD	Category 5e F/UTP 4 Pairs Shielded Cable, LSZH	305m/Drum_ Purple
SP5524E-BK0305MD	Category 5e F/UTP 4 Pairs Shielded Cable, PE	305m/Drum_ Black