



**Category 6A U/UTP Cable, Unshielded**

**Features & Benefits**

- Cross-filler inside to offer better NEXT and ANEXT performance
- Special SI-AL foil technology to offer excellent resistance to external crosstalk
- Frequency 1-500Mhz, extended to 550Mhz
- No grounding required to increase the efficiency of cabling installation
- Double length markings to reduce waste of cable

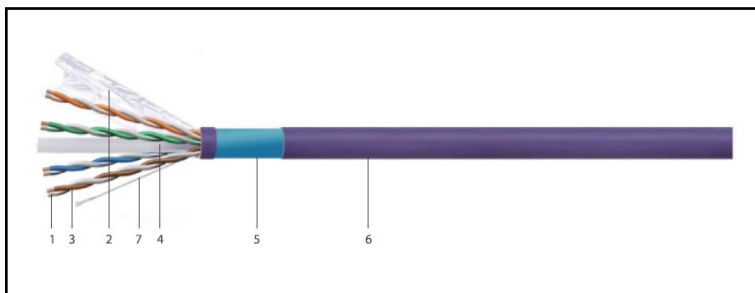
**Applications**

- 1000GBase-T applications
- Data cable for structured premises cabling up to Class Ea applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+ / PoE++

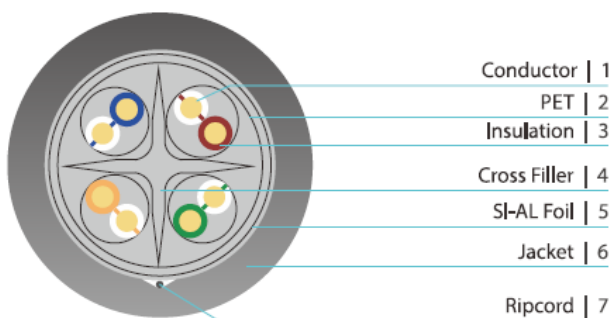
**Compliance & Standards**

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- IEC 60332
- EN50399
- EN50574
- EN50173-1

**Drawing**



**Technical Drawing**



TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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**Product Specifications**

<b>Product Type</b>		U/UTP CAT 6A 4×2×23AWG
<b>Conductor</b>	<b>AWG</b>	23
	<b>Material</b>	Solid Bare Copper
<b>Insulation</b>	<b>Material</b>	Polyolefin
<b>Twist</b>	<b>Direction</b>	S
	<b>No. of Pairs</b>	4
<b>Jacket</b>	<b>Material</b>	LSZH/PVC/CM/CMR/PE
	<b>Diameter (mm)</b>	7.4±0.3
	<b>Average Thickness (mm)</b>	0.60±0.1
<b>Installation Temperature Range</b>		0°C to +60°C
<b>Operating Temperature Range</b>		-20°C to +60°C (LSZH/PVC/CM/CMR); -20°C to +70°C (PE)

**Physical Performance**

<b>Product Type</b>		U/UTP CAT 6A 4X2X23AWG LSZH	U/UTP CAT 6A 4X2X23AWG PVC	U/UTP CAT 6A 4X2X23AWG PE
<b>Minimum Tension</b>		≥100N		
<b>Conductor Elongation</b>		≥15%		
<b>Jacket Before Aging</b>	<b>Tensile Strength</b>	≥10Mpa	≥13.5Mpa	≥17.5Mpa
	<b>Elongation</b>	≥125%	≥150%	≥150%
<b>Jacket After Aging</b>	<b>Tensile Strength</b>	≥8Mpa	≥12.5Mpa	≥14.5Mpa
	<b>Elongation</b>	≥100%	≥125%	≥125%



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**Transmission Performance**

Freq.	IL	RL	DOP	SKEW	NEXT	PS NEXT	EL FEXT	PS EL FEXT	PSANEXT	PS AACR-F
	dB/100M	dB	ns/100m	Ns/100m	dB	dB	dB	dB	dB	dB
MHz	Max.	Min.	Max.	Max.	Min.	Min.	Min.	Min.	Min.	Min.
1	2.1	20	570	45	75.3	72.3	68	65	67	67
4	3.8	23	552	45	66.3	63.3	56	53	67	66.2
16	7.5	25	543	45	57.2	54.2	44	41	67	54.1
20	8.1	25	542	45	55.8	52.8	42	39	67	52.2
31.25	10.5	23.6	540	45	52.9	49.9	38	35	67	48.3
62.5	15.0	21.5	539	45	48.4	45.4	32	29	65.6	42.3
100	19.1	20.1	538	45	45.3	42.3	28	25	62.5	38.2
250	31.1	17.3	536	45	39.3	36.3	20	17	56.5	30.2
400	36.4	17.3	535.6	45	35.3	33.3	15.8	12.8	53.5	26.2
500	45.3	17.3	536	45	34.8	31.8	14	11	52	24.2

Note: The above transmission performance is tested in 100 meters, 20 ± 2°C.

**Ordering Information**

Part No.	Product Name	Description
SP6683V-GY0305MD	Category 6A U/UTP 4 Pairs Unshielded Cable, PVC	305m/Drum_ Gray
SP6683M-GY0305MD	Category 6A U/UTP 4 Pairs Unshielded Cable, CM	305m/Drum_ Gray
SP6683R-BL0305MD	Category 6A U/UTP 4 Pairs Unshielded Cable, CMR	305m/Drum_ Blue
SP6683L-PU0305MD	Category 6A U/UTP 4 Pairs Unshielded Cable, LSZH	305m/Drum_ Purple
SP6683E-BK0305MD	Category 6A U/UTP 4 Pairs Unshielded Cable, PE	305m/Drum_ Black