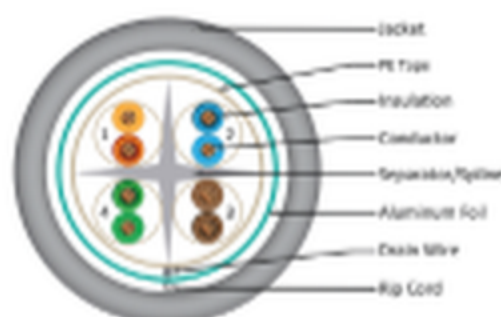


Copper Cabling System

60 SERIES - CAT6 F/UTP (Shielded)



Features:

- Overall Foil-Shielded Twisted Pair (F/UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 23 AWG Bare Copper Conductors
- Easy-to-See Yield Color Conductor Insulation & Jacket
- Digital and analog voice, video and data signal transmission
- LSZH flame retardant cables comply with IEC 60332-1-2, IEC 60332-3
- PE jacket for Waterproof

Transmission Performance Specifications

- UL-Listed, RoHS-Compliant
- Designed in the USA
- Packaging: 305m/roll

Standard Compliance:

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

Item

Description

HEC6053PE	CAT6 F/UTP, PE, Black, 305m/Box
HEC6053CM	CAT6 F/UTP, CM, Blue, 305m/Box
HFC6053PC	CAT6 F/UTP, PVC, Blue, 305m/Box
HFC605317	CAT6 F/UTP, LSZH, Orange, 305m/Box

Standard Compliance:

- 1000Base-T applications
- Data cable for structured premises cabling up to class E and CAT6 applications
- Digital and analog voice, video and data signal transmission
- EN Power over Ethernet (PoE) /PoE+

Construction:

Conductor	Material	Solid Bare Copper	
	Structure	23 AWG	
Insulation	Material	HDPE	
	Color	White-Blue/Blue White-Orange/Orange White-Green/Green White-Brown/Brown	
Shielded	Foil		
Jacket	Material	PVC, LSZH, PE	LS-FIB/PVC
	Diameter	7.4±0.3mm	6.8±0.2mm

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Electrical Performance

Direct Current Resistance of Each Conductor	$<9.38\Omega/100m$
Operating Capacitance	$<5.6nF/100m$
Unbalanced Capacitance	$<110pF/100m$
Impedance (ohms)	1~100MHz $100\pm1.5\%$ 100~250MHz $100\pm2.2\%$ 250~500MHz $100\pm2.5\%$
NVP	67%
Propagation Delay	$<65ns$

Physical Performance

Tensile	110N
Min. Bend Radius	10 times max jacket diameter
Installation and Storage Temperature	0~70°C (32~158°F)
Operating Temperature	-20~70°C (-4~158°F)

Transmission Performance

FREQUENCY	RL	IL	Del ²	Skew	NEXT	PSNEXT	ACR-F	PSACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(m)	(ns)	(dB)	(dB)	(dB)	(dB)
1	20	2	570	45	75	72	67.8	64.8
4	23	3.8	552	45	66	63	55.7	52.7
10	25	6	545	45	60	57	47.8	44.8
16	25	7.8	543	45	57	54	43.7	40.7
20	25	8.5	542	45	56	53	41.7	38.7
31.25	23.6	10.7	540	45	53	50	37.9	34.9
62.5	21.5	15.4	538	45	48	45	31.8	28.8
100	20.1	19.8	537	45	45.3	42.3	27.8	24.8
200	18	29	536	45	40.7	37.7	21.7	18.7
250	17.3	32.8	535	45	39	36	19.8	16.8