

60 SERIES CABLES CAT6 U/UTP

PDS-0156



DESCRIPTION

Wirewerks' 60 Series Cables are designed to sustain the speed and reliability needed to ensure your network to perform at its best. A rip cord of strong yarn facilitates the removal of the jacket. Its Reelex II (reel-free box) packaging enables the installer to deploy the cable without any trouble, and will be able to keep control of the length remaining in the box at all times with our descending length sequential markers.

Wirewerks' 60 Series Cables performance exceeds ANSI/TIA-568-C.2 Category 6 specifications, and ISO/IEC 11801 Class E.

FEATURES AND BENEFITS

- Descending length markers
- Easy payout with Reelex II (reel-free box) packaging
- Integrated rip cord
- Matching tip and ring color code for easy installation
- Low memory jacket
- Stable performance
- UL Listed and ETL Verified
- Backward compatible with CAT5e and CAT5
- No cross-web for a greater flexibility

APPLICATIONS

- Ethernet 10BASE-T, Fast Ethernet 100BASE-T/TX,
- Gigabit Ethernet 1000BASE-T/TX
- ATM 155 Mbps, 622 Mbps, and 1.2 Gbps
- Power over the Ethernet (PoE)
- Digital Video
- Broadband and baseband analog video
- Video conferencing/imaging

CERTIFICATION AND COMPLIANCE

ANSI/TIA-568-C.2

Balanced Twisted-Pair Telecommunications Cabling and Components Standards

ISO/IEC 11801

Generic Cabling for Customer Premises

UL 444

Safety Bi-national Standard

ETL

Verified Category 6

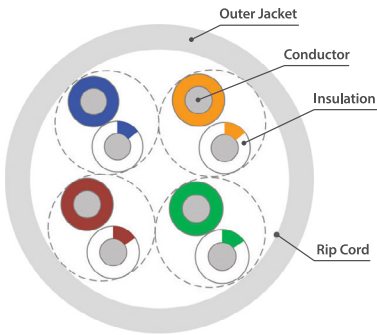
RoHS

Directive on Restriction of Hazardous Substances

PACKAGING

Description
1000 ft (305 m) Reelex II (Reel-Free Box)

ORDERING
INFORMATION



Description (Other colors available upon request.)		Part Number
CMP	CAT6 4-Pair UTP 23 AWG Solid CMP, White, Reel-Free 1000 ft (305 m)	6040-2PWH-R305
	CAT6 4-Pair UTP 23 AWG Solid CMP, Blue, Reel-Free 1000 ft (305 m)	6040-2PBL-R305
CMR	CAT6 4-Pair UTP 23 AWG Solid CMR, White, Reel-Free 1000 ft (305 m)	6040-2RWH-R305
	CAT6 4-Pair UTP 23 AWG Solid CMR, Blue, Reel-Free 1000 ft (305 m)	6040-2RBL-R305
	CAT6 4-Pair UTP 23 AWG Solid CMR, Purple, Reel-Free 1000 ft (305 m)	6040-2RPR-R305

PHYSICAL
CHARACTERISTICS

Parameter	Value	Color Code
Construction	Unshielded Twisted Pair	Pair 1: Blue-White/Blue Pair 2: Orange-White/Orange Pair 3: Green-White/Green Pair 4: Brown-White/Brown
Number of Pairs	4-Pair	
Conductor Material	Solid Bare Copper	
Conductor Gauge	23 AWG	
Parameter	CMP Value	CMR Value
Insulation Material	FEP	HDPE
Jacket Material	CMP rated LS-PVC	CMR rated PVC
Overall Nominal Diameter	5.1 mm (0.20 in)	5.4 mm (0.21 in)

MECHANICAL
CHARACTERISTICS

Parameter	CMP Value	CMR Value
Operating Temperature	-20° C (-4° F) ~ 75° C (167° F)	-20° C (-4° F) ~ 75° C (167° F)
Cable Weight	11.45 kg/305 m (25.24 lbs/1000 ft)	11.45 kg/305 m (25.24 lbs/1000 ft)
Max. Pulling Tension	110 N (25 lbf.)	110 N (25 lbf.)
Min. Bend Radius (Install)	4 x O.D.	4 x O.D.

ELECTRICAL
CHARACTERISTICS

Parameter	CMP Value	CMR Value
Max. DC Resistance	73.2 Ω /km (20° C)	73.2 Ω /km (20° C)
Max. DC Resistance Unbalance	$\leq 5\%$ (20° C)	$\leq 5\%$ (20° C)
Nom. Mutual Capacitance	≤ 5.6 nF/100 m (1 KHz)	≤ 5.6 nF/100 m (1 KHz)
Nom. Velocity of Propagation	65%	65%
Characteristic Impedance	250 MHz: upper 131.5 Ω / lower 76.0 Ω	250 MHz: upper 131.5 Ω / lower 76.0 Ω

ELECTRICAL
PERFORMANCE

Transmission Performance (at 20°C)

Freq. (MHz)	IL	NEXT	PS. NEXT	ACR	PS. ACR	ACRF	PS. ACRF	RL	PROP. DELAY
	MAX. dB/ 100m	MIN. dB/ 100m	MIN. dB/ 100m	MIN. dB/ 100m	MIN. dB/ 100m	MIN. dB/ 100m	MIN. dB/ 100m	MIN. B/ 100m	MAX. dB/ 100m
1	2.03	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00
4	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00
8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73
10	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38
16	7.55	56.24	54.24	48.68	46.68	43.72	40.72	25.00	543.00
20	8.47	54.78	52.78	46.31	44.31	41.78	38.78	25.00	542.05
25	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541.20
31.25	10.67	51.88	49.88	41.20	39.20	37.90	34.90	23.64	540.44
62.5	15.38	47.36	45.36	31.98	29.98	31.88	28.88	21.54	538.55
100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60
150	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	536.94
200	28.98	39.78	37.78	10.80	8.80	21.78	18.78	18.00	536.55
250	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28
300	36.43	37.14	35.14	0.72	N.A.	18.26	15.26	16.77	536.08
350	39.79	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92
400	42.97	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80
450	46.01	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70
500	48.94	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61
550	51.76	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54

Values above 250 MHz are for informational purposes only