

50 Series Cables CAT5e U/UTP

Description

Wirewerks' 50 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' 50 Series Cables performance exceeds ANSI/TIA-568-C.2 Category 5e specifications, and ISO/IEC 11801 Class D.

Features and Benefits

Descending length markers	Low memory jacket
Easy payout with reel-free box packaging	Stable performance
Integrated rip cord	UL Listed and ETL Verified
Matching tip and ring color code for easy installation	

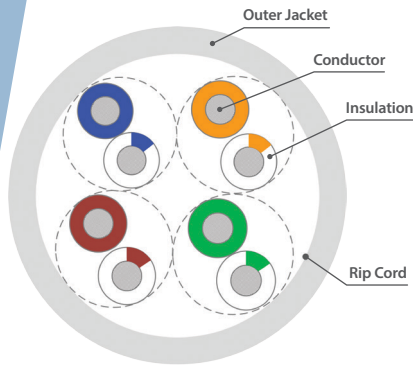
Applications

Ethernet 10BASE-T	Token Ring 4/16
Fast Ethernet 100BASE-T	ATM 155 Mbps, 622 Mbps
Gigabit Ethernet 1000BASE-T	Power over the Ethernet (PoE).

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 certified
UL	Listed Communication Circuit Accessories
RoHS	Directive on Restriction of Hazardous Substances.





Ordering Information

Other colors available upon request.

Description		Part Number
CMP	CAT5e 4-Pair UTP 24 AWG Solid CMP , White, Reel-Free box 1000 ft (305 m).	5540-1PWH-R305
	CAT5e 4-Pair UTP 24 AWG Solid CMP , Blue, Reel-Free box 1000 ft (305 m).	5540-1PBL-R305
CMR	CAT5e 4-Pair UTP 24 AWG Solid CMR , White, Reel-Free box 1000 ft (305 m).	5540-1RWH-R305
	CAT5e 4-Pair UTP 24 AWG Solid CMR , Blue, Reel-Free box 1000 ft (305 m).	5540-1RBL-R305

Packaging

1000 ft (305 meters) reel-free box

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	24 AWG	
Parameter	CMP Value	CMR Value
Insulation material	FRPP	FRPE
Jacket material	CMP rated LS-PVC	CMR rated
Overall nominal diameter	4.8mm (0.19 in.)	4.8 mm (0.19 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	9.4 kg/305 m (20.7 lbs/1000 ft)	9.4 kg/305 m (20.7 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	93.8 Ω/km (20° C)	93.8 Ω/km (20° C)
Max. DC resistance unbalance	≤5 % (20° C)	≤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	100 MHz: upper 115 Ω/ lower 85 Ω	100 MHz: upper 115 Ω/ lower 85 Ω

Electrical Performance

Frequency (MHz)	Minimum Return Loss (dB)	Minimum Insertion Loss (dB/100 m)	Minimum NEXT (dB)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
0.772	-	1.8	67.0	64.0	-	-
1	20.0	2.0	65.3	62.3	163.8	60.8
4	23.0	4.1	56.3	53.3	51.7	48.7
8	24.5	5.8	51.8	48.8	45.7	42.7
10	25.0	6.5	50.3	47.3	43.8	40.8
16	25.0	8.2	47.3	44.3	39.7	36.7
20	25.0	9.3	45.8	42.8	37.7	34.7
25	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100	20.1	22.0	35.3	32.3	23.8	20.8