

CATEGORY 5e CABLE

**CAROL
BRAND**

Helix/HiTemp®

FEATURES AND BENEFITS

- TRU-Mark® print legend contains footage marking from 1000' to 0'
- Third-party verified for guaranteed performance

STANDARD COMPLIANCES

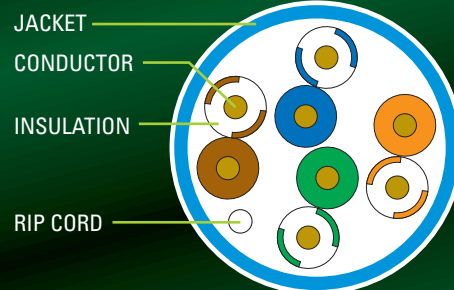
- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ICEA S-90-661 (Category 5e)
- UL & c(UL) Type CMR (UL 1666) for Non-Plenum
- UL & c(UL) Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant



APPLICATIONS

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR5.30.07	CP5.30.07
White	CR5.30.02	CP5.30.02
Gray	CR5.30.10	CP5.30.10
Green	CR5.30.06	CP5.30.06
Yellow	CR5.30.05	CP5.30.05
Red	CR5.30.03	CP5.30.03

PART NUMBERS

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR5.A3.07	CP5.A3.07
White	CR5.A3.02	CP5.A3.02
Gray	CR5.A3.10	CP5.A3.10
Green	CR5.A3.06	CP5.A3.06
Yellow	CR5.A3.05	CP5.A3.05
Red	CR5.A3.03	CP5.A3.03

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.200	0.180
Nominal Cable Weight (lbs/1000ft)	21	19
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-10 to +60	-10 to +60

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Mutual Capacitance (nom) PF/ft @ 1 KHz	14
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.7	51.7	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.7	37.7	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.8	27.8	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	16.9	19.9	—
200	—	—	32.4	27.8	30.8	14.7	17.7	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

Notes: Values are expressed in dB per 100m (328ft.) length.
Values above 100 MHz are for informational purposes only.

CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

Rip Cord

- Applied longitudinally under jacket

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke Flame-Retardant PVC

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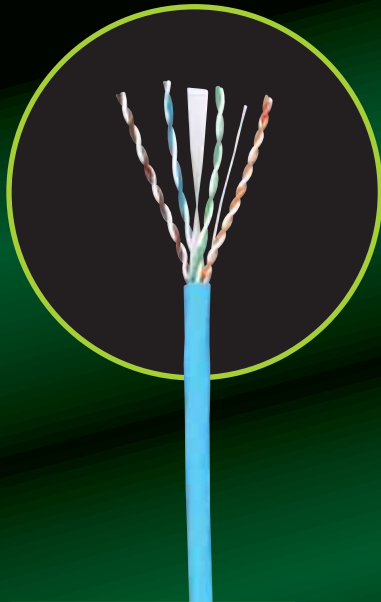
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General Cable

CATEGORY 6 CABLE

CAROL BRAND

Helix/HiTemp®



FEATURES AND BENEFITS

- TRU-Mark® print legend contains footage marking from 1000' to 0'
- Third-party verified for guaranteed performance

STANDARD COMPLIANCES

- ANSI/TIA/EIA 568 B.2-1 (Category 6)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- UL & c(UL) Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant



PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Pull-Pac® II		
Jacket Color	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR6.30.07	CP6.30.07
White	CR6.30.02	CP6.30.02
Gray	CR6.30.10	CP6.30.10
Green	CR6.30.06	CP6.30.06
Yellow	CR6.30.05	CP6.30.05
Red	CR6.30.03	CP6.30.03

PART NUMBERS

Standard packaging: 1000' Spool-Pac®

Spool-Pac®		
Jacket Color	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR6.A3.07	CP6.A3.07
White	CR6.A3.02	CP6.A3.02
Gray	CR6.A3.10	CP6.A3.10
Green	CR6.A3.06	CP6.A3.06
Yellow	CR6.A3.05	CP6.A3.05
Red	CR6.A3.03	CP6.A3.03

ELECTRICAL PERFORMANCE

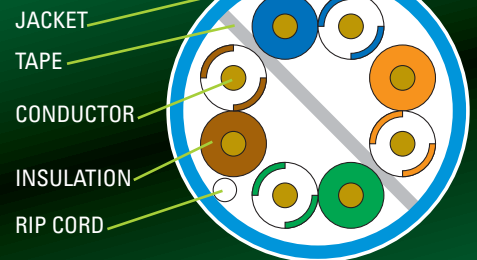
Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (min)	ELTCTL (min)
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0	40.0	35.0
4	59.3	61.5	3.8	63.3	65.3	52.8	55.7	23.0	40.0	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0	40.0	15.0
16	46.7	48.7	7.6	54.2	56.2	40.7	43.7	25.0	38.0	10.9
20	44.3	46.3	8.5	52.8	54.8	38.8	41.7	25.0	37.0	9.0
31.25	39.2	41.2	10.7	49.9	51.9	34.9	37.9	23.6	35.1	5.1
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5	32.0	5.0
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1	30.0	5.0
150	14.9	16.9	24.7	39.7	41.7	21.3	24.3	18.9	28.2	5.0
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0	27.0	5.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3	26.0	5.0
350	—	—	39.8	34.1	36.1	13.9	16.9	16.3	—	—
400	—	—	43.0	33.3	35.3	12.8	15.8	15.9	—	—
500	—	—	48.9	31.8	33.8	10.8	13.8	15.2	—	—

Notes: Values are expressed in dB per 100m (328ft.) length. Values above 250 MHz are for informational purposes only.

APPLICATIONS

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital Video
- Broadband and Baseband Analog Video

CROSS-SECTION



PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.205	0.200
Nominal Cable Weight (lbs/1000ft)	28	28
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMR: 70 CMP: 68
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz	Ohms 100 ± 15 100 ± 22

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Separator

- Tape

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

Rip Cord

- Applied longitudinally under jacket

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke Flame-Retardant PVC

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