Carol® Helix/Hi-Temp® Category 5e Cable

Enhanced Transmission Throughput

Product Construction:

Conductors:

• 24 AWG solid bare annealed copper

Insulation

Non-Plenum: PolyolefinPlenum: Fluoropolymer

Rip Cord

• Applied longitudinally under jacket

Jacket

- Non-Plenum: flame-retardant PVC
- Plenum: low-smoke, flame-retardant PVC
- TRU-Mark® print legend contains footage markings from 1000' to 0'

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/s4/16 Mp/s token ring

Compliances:

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ICEA S-90-661 (Category 5e)
- UL & c(UL) Type CMR (UL 1666) for Non-Plenum
- UL & c(UL) Type CMP (NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications)
- UL 444
- RoHS Compliant Directive 2002/95/EC
- Third-party verified for guaranteed performance

Packaging:

- 1000' Pull-Pac® II
- 1000' Spool-Pac®

PART NUMBERS

	PULL-PAC® II		SPOOL-PAC®		
JACKET COLOR	CMR (NON-PLENUM)	CMP (PLENUM)	CMR (NON-PLENUM)	CMP (PLENUM)	
Blue	CR5.30.07	CP5.30.07	CR5.A3.07	CP5.A3.07	
White	CR5.30.02	CP5.30.02	CR5.A3.02	CP5.A3.02	
Gray	CR5.30.10	CP5.30.10	CR5.A3.10	CP5.A3.10	
Green	CR5.30.06	CP5.30.06	CR5.A3.06	CP5.A3.06	
Yellow	CR5.30.05	CP5.30.05	CR5.A3.05	CP5.A3.05	
Red	CR5.30.03	CP5.30.03	CR5.A3.03	CP5.A3.03	

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 (328 ft.) length. Values above 250 MHz are for informational purposes only.

PHYSICAL DATA

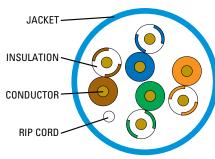
	CMR (NON-PLENUM)	CMP (PLENUM)		
Nominal Cable Diameter (in)	0.200	0.180		
Nominal Cable Weight (lbs/1000ft)	21	19		
Minimum Bend Radius (in)	1.0	1.0		
Maximum Pulling Force (lbs)	25	25		
Temperature Rating (°C)				
Installation:	0 to +60	0 to +60		
Operation:	-10 to +60	-10 to +60		
ELECTRICAL CHARACTERISTICS				

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100	8.9	
DC Resistance Unbalance (max	3.0	
Mutual Capacitance (nom) pF/f	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

Data subject to change without notice.

CATEGORY 5e CROSS-SECTION







Designed to Meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Underwriters Laboratories Inc.











Audio/Video & Home Entertainment Cable



General Cable offers a variety of Carol® Brand wire and cable for audio/video and direct burial applications. From field production cable to microphone, snake, guitar and speaker cable, General Cable supports the increasingly demanding entertainment industry.

For extreme hard service, General Cable's rubber microphone cables offer the ultimate in performance and service life. The rubber designs are highly flexible and designed to lie flat on studio floors, as well as provide high impact and abrasion resistance.

For outdoor and cold weather applications, microphone cable jacketed with Carolprene® provides the ultimate protection against ozone, oil and ultraviolet radiation.

These technically sophisticated cables are required to contain sources of interference and to protect against difficulties where they are unavoidable. In addition to providing the needed electrical characteristics, the cables are properly designed to handle demanding conditions, such as microphone hum, handling noise, crosstalk, electrostatic hum, SCR noise and common ground noise—either on stage, in a studio or at a remote venue.

For more information on these cables or for other special applications, please contact your General Cable sales representative.

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