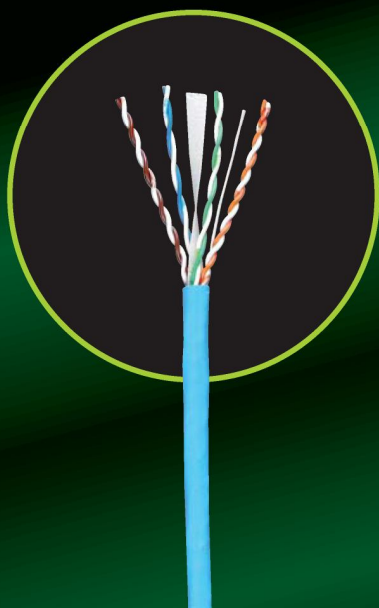


CATEGORY 6 CABLE

CAROL BRAND

Helix/HiTemp®



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 CMR (UL 1666) for Non-Plenum
- UL & c(UL) Type CMP (NFPA 262) for Plenum
- UL 444



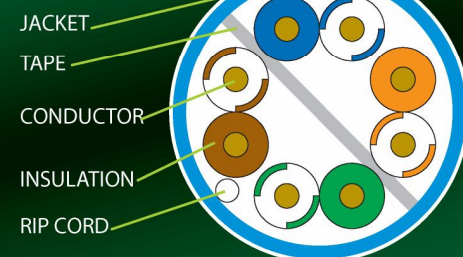
FEATURES AND BENEFITS

- Unique tape design engineered for smaller overall diameter and ease of installation
- Characterized and tested to 500 MHz
- TRU-Mark™ print legend contains footage marking from 1000' to 0'
- Unique product-specific packaging for ease of identification
- UL verified for guaranteed performance
- Application assurance warranty

APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband Analog Video

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Pull-Pac

Jacket Color	Pull-Pac® II	
	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

Jacket Color	Spool-Pac®	
	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

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.220	0.215
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:	-10 to +60	-10 to +60

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	5.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz	Ohms 100 ± 15 100 ± 22

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0
16	47.0	49.0	7.6	54.3	56.3	40.7	43.7	25.0
20	44.3	46.3	8.5	52.8	54.8	38.8	41.8	25.0
31.25	39.2	41.2	10.7	49.9	51.9	36.8	37.9	23.6
62.5	30.0	32.0	15.4	45.4	47.4	28.9	31.9	21.5
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1
200	9.0	11.0	29.0	37.8	39.8	18.8	21.8	18.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3
350	-	-	36.4	34.2	36.2	-	-	-
400	-	-	43.0	33.3	35.3	-	-	-
500	-	-	48.9	31.8	33.8	-	-	-

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

CONSTRUCTION

- Conductors
 - 23 AWG solid bare annealed copper
- Separator
 - Tape
- Insulation
 - Non-Plenum: Polyolefin
 - Plenum: 3 pairs FEP/1 pair Polyolefin
- 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, Flexguard Flame-Retardant PVC

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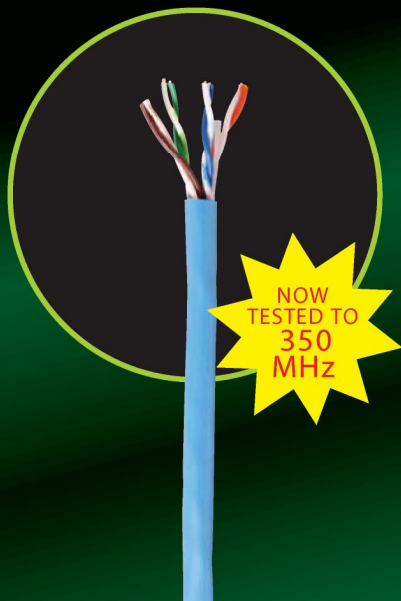
Ricardo Palma 693 Miraflores
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www.nexus.com.pe

General Cable

CATEGORY 5e CABLE

**CAROL
BRAND**

Helix/HiTemp®



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



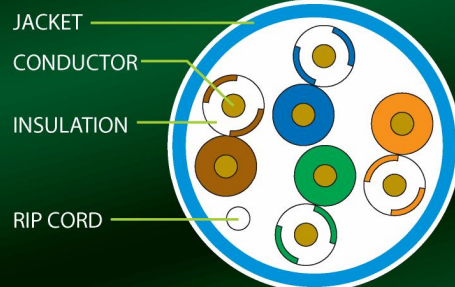
FEATURES AND BENEFITS

- Characterized and tested to 350 MHz
- TRU-Mark® print legend contains footage marking from 1000' to 0'
- Unique product-specific packaging for ease of identification
- UL verified for guaranteed performance
- Application assurance warranty

APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet),
- 100BASE-TX, 10BASE-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

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 %	5.0
Mutual Capacitance (nom) PF/ft @ 1KHz	14
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-350 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: 3 pairs FEP/1 pair Polyolefin
- Color Code
 - Pair 1: Blue-White/Blue
 - Pair 2: Orange-White/Orange
 - Pair 3: Green-White/Green
 - Pair 4:
 - Non-Plenum: Brown-White/Brown
 - Plenum: Brown-White
- Rip Cord
 - Applied longitudinally under jacket
- Jacket
 - Non-Plenum: Flame-Retardant PVC
 - Plenum: Low-Smoke, Flexguard Flame-Retardant PVC

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