Inside Wiring Cable

General Cable's comprehensive line of inside wiring products includes transmission compliant Category 1 through 6* cables as well as several enhanced category cables, including Command LINX® 6, General Cable's round design category 6* cable which is characterized out to 500 MHz.

The cables are used in both everyday type systems to state-of-the-art communications/data systems. The designs find application as "horizontal" wiring of voice and data systems as well as in "backbone" installations too. The products are tested to, and meet, the standards of ANSI/TIA/EIA 568A and/or ANSI/ICEA S-90-661. Additionally, they meet the latest Underwriters Laboratories Inc., Canadian Standards Association, and National Electrical Code requirements for inside wiring type cables.

Fabricated on ultra-modern equipment, these products are guaranteed to meet your installation and performance expectations.

The cables are available in a variety of put-ups and jacket colors to meet your needs.

If your need is for inside wiring, pick General Cable and rest assured that your system will provide top notch performance.

Spools

Reels

Pull-Pac® Cartons

Spool-Pac® Cartons

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* Category 6 is currently under review by TIA/EIA and ISO/IEC.

General Cable

Voice Grade Overall Shield

Category 1 • ScTP • Spec. 8009 • Type MPR/CMR

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Flame retardant semi-rigid PVC

Pairing:
- Two twists per foot minimum

Color Code:
- Bandmarked; see Color Code Chart on page 51

Drain Wire:
- 24 AWG solid tinned copper drain wire for 24 AWG cable

Shield:
- Polyester backed aluminum foil

Ripcord:
- Applied longitudinally under jacket

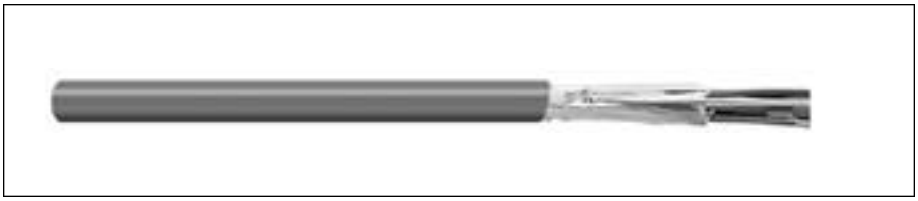
Jacket:
- Flame retardant PVC
- Sequential footage markings

Features:
- Shielded inside wiring cable for voice and low speed data transmission in local area networks
- Reduces effect of EMI/RFI in hostile electromagnetic environments
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with the NEC Article 800-51 (b) (g)

Applications:
- Voice
- T1 Fractional

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- ANSI/ICEA S-80-576
- ANSI/ICEA S-90-661 (Category 1)

Packaging:
- 1000' spool (SP)
- 1000' non-returnable reel (RL)
- Per order lengths (POL) are available upon request



PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
7023195	12	24	Gray	RL	0.24	45
7014533	25	24	Gray	RL	0.34	87
7034085	50	24	Gray	RL	0.47	170
7023211	100	24	Gray	RL	0.64	330

Data subject to change without notice. Contact your Customer Service Representative for latest information.

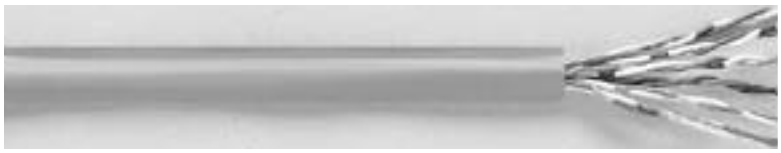
Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/1000ft @ 20˚C	28.6
Mutual Capacitance (nom) pF/ft @ 1kHz	26
Attenuation (nom) dB/1000ft @ 1MHz	11
Characteristic Impedance (nom) Ohms @ 1MHz (nom)	80

General Cable

High Speed Data/LAN

Category 3 • UTP • Spec. 4462 • Type MPR/CMR



PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133008	2*	24	Beige	PP	0.13	9
2133009	2*	24	Gray	PP	0.13	9
2133010	2*	24	Beige	SP	0.13	9
2133011	2*	24	Gray	SP	0.13	9
2133012	3	24	Beige	PP	0.15	13
2133013	3	24	Gray	PP	0.15	13
2133014	3	24	Beige	SP	0.15	13
2133015	3	24	Gray	SP	0.15	13
2133016	4	24	Beige	PP	0.16	16
2133017	4	24	Gray	PP	0.16	16
2133379	4	24	Beige	SPC	0.16	16
2133358	4	24	Gray	SPC	0.16	16
2133018	4	24	Beige	SP	0.16	16
2133019	4	24	Gray	SP	0.16	16
2133020	6	24	Beige	PP	0.17	23
2133021	6	24	Gray	PP	0.17	23
2133022	6	24	Beige	SP	0.17	23
2133023	6	24	Gray	SP	0.17	23
2133026	12	24	Beige	RL	0.28	47
2133027	12	24	Gray	RL	0.28	47
2133032	25	24	Beige	RL	0.39	105
2133033	25	24	Gray	RL	0.39	105
2133033.99	25	24	Gray	POL	0.39	105
2133161	50	24	Gray	RL	0.52	185
2133370	50	24	Beige	RL	0.52	185
2133161.99	50	24	Gray	POL	0.52	185
2133144	100	24	Gray	RL	0.74	375
2133144.99	100	24	Gray	POL	0.74	375
2133323	200	24	Gray	RL	1.02	724
2133323.99	200	24	Gray	POL	1.02	724
2133373	300	24	Gray	POL	1.23	1077

Data subject to change without notice. Contact your Customer Service Representative for latest information.

* 2 pair 24 AWG is CM only.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m @ 20°C		9.38
Mutual Capacitance (nom) pF/ft @ 1kHz		18
Characteristic Impedance		Ohms (min-max)
Frequency (f):	772 kHz	87-117
	1.0-16.0 MHz	85-115
Structural Return Loss (SRL)		dB (min)
Frequency (f):	1.0-10.0 MHz	12
	10.0-16.0 MHz	12-10 log (f/10)

Frequency	Attenuation dB/100m (max)	Power Sum Near-End Crosstalk dB (min)
772 kHz	2.2	43
1 MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Flame retardant semi-rigid PVC

Pairing:
- Two twists per foot minimum

Color Code:
- Bandmarked; see Color Code Chart on page 51

Rip Cord:
- Applied longitudinally under jacket

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- Excellent transmission characteristics meeting Category 3 requirements
- All pair counts meet Category 3 Power Sum NEXT backbone wiring transmission requirements
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with the NEC Article 800-51(b) (g)

Applications:
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4 Mbps Token Ring (IEEE 802.5)
- 52 Mbps ATM
- 100 VG-AnyLAN

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- IBM Type 3
- ANSI/TIA/EIA 568A (Category 3)
- ANSI/ICEA S-90-661 (Category 3)
- NEMA WC63.1 (Category 3)

Packaging:
2-6pr
- 1000' Pull-Pac® Carton (PP)
- 1000' Spool-Pac® (SPC)
- 1000' spool (SP)
  12-100pr
- 1000' non-returnable reel (RL)
  200pr-300pr
- 500' non-returnable reels (RL)
- Per order lengths (POL) are available upon request

General Cable

High Speed Data/LAN Overall Shield

Category 3 • ScTP • Spec. 4475 • Type MPR/CMR

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Flame retardant semi-rigid PVC

Pairing:
- Two twists per foot minimum

Color Code:
- Bandmarked; see Color Code Chart on page 51

Drain Wire:
- 24 AWG solid tinned copper

Shield:
- Polyester backed aluminum foil

Ripcord:
- Applied longitudinally under jacket

Jacket:
- Flame retardant PVC
- Sequential footage markings

Features:
- Reduces effect of EMI/RFI in hostile electromagnetic environments
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with the NEC Article 800-51(b) (g)

Applications:
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4 Mbps Token Ring (IEEE 802.5)
- 52 Mbps ATM
- 100 BASE VG-AnyLAN

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- IBM Type 3
- ANSI/TIA/EIA 568A (Category 3)
- ANSI/ICEA S-90-661 (Category 3)
- NEMA WC63.1 (Category 3)

Packaging:
- 1000' spool (SP)
- 1000' non-returnable reel (RL)

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133175	2*	24	Gray	SP	0.19	18
2133176	3	24	Gray	SP	0.22	23
2133177	4	24	Gray	SP	0.24	28

Data subject to change without notice. Contact your Customer Service Representative for latest information.

* 2 pair 24 AWG is CM only.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20°C		9.38
Mutual Capacitance (nom) pF/ft @ 1kHz		18
Characteristic Impedance		Ohms (min-max)
Frequency (f):	772 kHz	87-117
	1.0-16.0 MHz	85-115
Structural Return Loss (SRL)		dB (min)
Frequency (f):	1.0-10.0 MHz	12
	10.0-16.0 MHz	12-10 log (f/10)

Frequency	Attenuation dB/100m (max)	Power Sum Near-End Crosstalk dB (min)
772 kHz	2.2	43
1 MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23

General Cable

Extended Frequency Data/LAN

Category 5e • UTP • Spec. 8480 • Type MPR/CMR

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
5133200e	4	24	Gray	PP	0.20	21
5133299e	4	24	Blue	PP	0.20	21
5133255e	4	24	White	PP	0.20	21
5133329e	4	24	Gray	SPC	0.20	21
5133374e	4	24	Blue	SPC	0.20	21
5133342e	4	24	White	SPC	0.20	21
5133204e	4	24	Gray	SP	0.20	21
5133300e	4	24	Blue	SP	0.20	21
5133250e	4	24	White	SP	0.20	21
5133268e	4	24	Beige	PP	0.20	21
5133290e	4	24	Pink	PP	0.20	21
5133274e	4	24	Red	PP	0.20	21
5133289e	4	24	Yellow	PP	0.20	21
5133383e	4	24	Orange	PP	0.20	21
5133512e	4	24	Green	PP	0.20	21
2133269	25*	24	Gray	RL	0.50	130

Data subject to change without notice. Contact your Customer Service Representative for latest information.

* 25 pair backbone cable is laid up with pairs 1-24 formed into 6 unjacketed 4-pair bundles and cabled around the jacketed 25th pair. This cable only meets Category 5 requirements.

Note: Category 5 is available upon request.

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20˚C	8.9
Mutual Capacitance (nom) pF/ft @ 1 kHz	14
Characteristic Impedance Ohms (min-max) *Frequency (f):* 772 kHz	87-117
1.0-100 MHz	85-115
Delay Skew (max) ns/100m	45
Nominal Velocity of Propagation (NVP) % Speed of Light	70
Propagation Delay (max) ns @ 10 MHz	518

Frequency	Max Atten. dB/100m (328ft)	Near End Crosstalk dB (min)	Power Sum Near End Crosstalk dB (min)	Power Sum ELFEXT	Return Loss dB (min)
772 kHz	1.8	67.3	64.3	63.0	-
1 MHz	2.0	65.3	62.3	60.8	20.0
4 MHz	4.1	56.3	53.3	48.7	23.0
8 MHz	5.8	51.3	48.3	42.7	24.5
10 MHz	6.5	50.3	47.3	40.8	25.0
16 MHz	8.2	47.3	44.3	36.7	25.0
20 MHz	9.3	45.3	42.3	34.7	25.0
25 MHz	10.4	44.3	41.3	32.8	24.3
31.25 MHz	11.7	42.3	39.3	30.9	23.6
62.5 MHz	17.0	38.3	35.3	24.8	21.5
100 MHz	22.0	35.3	32.3	20.8	20.1

Note: Conformance testing of Impedance, SRL, NEXT, PS-NEXT is based on sweep measurements.

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying short pair lay

Color Code:
- Bandmarked; see Color Code Chart on page 51

Rip Cord:
- Applied longitudinally under jacket

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- All pair counts meet Category 5e Power Sum backbone transmission requirements
- Suitable for high-speed data transmission (i.e. 100 Mbps, 155 Mbps & Gigabit Ethernet)
- UL Listed Type MPR/CMR for installation in vertical risers and general horizontal applications, when installed in accordance with the NEC Article 800-51 (b) (g)

Applications:
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 52/155 Mbps ATM
- 100 VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (IEEE 802.3ab)

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- ANSI/TIA/EIA 568A-5 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5)
- NEMA WC63.1 (Category 5)

Packaging:
- 1000' Pull-Pac® Carton (PP)
- 1000' spool (SP)
- 1000' Spool-Pac® (SPC)
- 1000' non-returnable reel (RL)
- Per order lengths (POL) are available upon request

General Cable

Extended Frequency Data/LAN Overall Shield

Category 5 • ScTP • Spec. 4485 • Type MPR/CMR

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying short pair lay

Color Code:
- Bandmarked; see Color Code Chart on page 51

Rip Cord:
- Applied longitudinally under jacket

Drain Wire:
- 24 AWG solid tinned copper

Shield:
- Polyester backed aluminum foil

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- Reduces effect of EMI/RFI in hostile electromagnetic environments
- Suitable for high-speed data transmission (i.e. 100 Mbps, 155 Mbps, etc.)
- UL Listed Type MPR/CMR for installation in vertical risers and general horizontal applications, when installed in accordance with the NEC Article 800-51 (b) (g)

Applications:
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- ANSI/TIA/EIA 568A (Category 5)
- ANSI/ICEA S-90-661 (Category 5)
- NEMA WC63.1 (Category 5)

Packaging:
- 1000' spool (SP)
- Per order lengths (POL) are available upon request

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133495	4	24	Gray	SP	0.30	31
2133496	4	24	Blue	SP	0.30	31

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20˚C		8.9
Mutual Capacitance (nom) F/pF/ft @ 1 kHz		14
Characteristic Impedance		Ohms (min-max)
Frequency (f):	772 kHz	87-117
	1.0-100.0 MHz	85-115
Structural Return Loss (SRL)		dB (min)
Frequency (f):	1.0-20.0 MHz	23
	20.0-100.0 MHz	23-10 log (f/20)
Delay Skew (max) ns/100m		45
Nominal Velocity of Propagation (NVP) % Speed of Light		70

Frequency	Max Attenuation dB/100m	Near-End Crosstalk dB (min)
772 kHz	1.8	64
1 MHz	2.0	62
4 MHz	4.1	53
8 MHz	5.8	48
10 MHz	6.5	47
16 MHz	8.2	44
20 MHz	9.3	42
25 MHz	10.4	41
31.25 MHz	11.7	39
62.5 MHz	17.0	35
100 MHz	22.0	32

General Cable

PlatinumPLUS™ - 350 MHz

Premium Category 5e • UTP • Spec. 6480 • Type MPR/CMR

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
6133339	4	24	White	SPC	0.21	22
6133403	4	24	Blue	SPC	0.21	22
6133255	4	24	White	PP	0.21	22
6133299	4	24	Blue	PP	0.21	22

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20˚C		8.9
DC Resistance Unbalance (max) Individual Pair %		3.0
Input Impedance *Frequency (f):*	1.0-100 MHz	100 ± 15
	100-350 MHz	100 ± 22
Characteristics Impedence *Frequency (f):*	1-350 MHz	100 ± 15%
ACR @ 100 MHz,		dB (min) 21
PS-ACR @ 100 MHz,		dB (min) 19
Delay Skew (max) ns/100m		25
Nom. Velocity of Propagation % Speed of Light		70

The Input Impedance values specified are based on swept frequency cable measurements per ISO/IEC 11801. No curve fitting or smoothing functions are used.

Frequency	Max Attenuation dB/100m	ELFEXT dB (min)	PS-ELFEXT dB (min)	PS-NEXT dB (min)	NEXT dB (min)	SRL dB (min)	Return Loss dB (min)
772 kHz	1.8	66	63	70	72	-	-
1 MHz	2.0	64	61	68	70	24.5	20.0
4 MHz	4.1	52	49	59	61	24.5	23.0
8 MHz	5.8	46	43	54	56	24.5	24.5
10 MHz	6.5	44	41	53	55	24.5	25.0
16 MHz	8.2	40	37	50	52	24.5	25.0
20 MHz	9.3	38	35	48	50	24.5	25.0
25 MHz	10.4	36	33	47	49	24.0	24.3
31.25 MHz	11.7	34	31	45	47	23.5	23.6
62.5 MHz	17.0	28	25	41	43	22.0	21.5
100 MHz	22.0	24	21	38	40	21.0	20.1
155 MHz	28.1	20	17	35	37	20.1	18.8
200 MHz	32.4	18	15	33	35	19.5	18.0
300 MHz	41.0	14	11	31	33	18.6	16.8
350 MHz	44.9	13	10	30	32	18.3	16.3

Color Code Chart

PAIR NO.	COLOR CODE
1	White/Blue & Blue
2	White/Orange & Orange
3	White/Green & Green
4	White/Brown & Brown

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying pair lays

Color Code:
- See chart below

Rip Cord:
- Applied longitudinally under jacket

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- Sweep tested and characterized to 350 MHz
- Typical applications include 100 BASE-T & Gigabit Ethernet (IEEE 802.3ab), 4/16 Mbps Token Ring (IEEE 802.5) and 52/155 Mbps ATM
- Every master reel is tested for electrical performance
- Exceeds Category 5e transmission requirements
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with NEC Article 800-51 (b) (g)

Applications:
- 10 BASE-T
- 4/16 Mbps Token Ring
- 100 BASE VG AnyLAN
- 100 Mbps TP-PMDD
- 100 BASE-T
- 52/155 Mbps ATM
- 622 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet)

Compliances:
- ISO/IEC 11801
- ANSI/TIA/EIA 568A-5 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5X-100)
- NEMA WC 63.1 (Category 5)
- UL Listed Type MPR/CMR
- c(UL) CMG

Packaging:
- 1000' Spool-Pac® (SPC)
- 1000' Pull-Pac® carton (PP)
- Per order length (POL) packaging available on request.

General Cable

DreamLAN® 5 - 200 MHz

Premium Category 5e • UTP • Spec. 4600 • Type MPR/CMR

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying short pair lay

Color Code:
- Bandmarked; see Color Code Chart on page 51

Rip Cord:
- Applied longitudinally under jacket

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- Sweep tested and characterized to 200 MHz
- Guaranteed 10 dB margin on worst pair NEXT Category 5
- Guaranteed ACR of 23 dB
- Every master reel is tested for electrical performance
- Exceeds Category 5e transmission requirements
- Suitable for high-speed data transmission (i.e. 1000 Mbps, 155 Mbps etc.)
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with the NEC Article 800-51 (b) (g)

Applications:
- 10 BASE-T (1EEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5))
- 100 VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM
- 622 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet)

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- ANSI/TIA/EIA 568A-5 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5)
- NEMA WC63.1 (Category 5)
- ISO/IEC 11801

Packaging:
- 1000' Spool-Pac® (SPC)
- Per order lengths (POL) are available upon request

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133420	4	24	Ivory	SPC	0.12 x 0.34	22
2133486	4	24	Blue	SPC	0.12 x 0.34	22
2133487	4	24	Yellow	SPC	0.12 x 0.34	22
2133489	4	24	Green	SPC	0.12 x 0.34	22

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20˚C		8.9
DC Resistance Unbalance (max) Individual Pair %		3.0
Mutual Capacitance (nom) pF/ft @ 1kHz		14
Input Impedance		Ohms
Frequency (f):	1-100 MHz	100 ± 15
	100-200 MHz	100 ± 22
Characteristic Impedance		Ohms
Frequency (f):	1-200 MHz	100 ± 15%
ACR		dB (min)
@:	100 MHz	23
PS-ACR		dB (min)
@:	100 MHz	21
Delay Skew (max) ns/100m		25
Nominal Velocity of Propagation (NVP) % Speed of Light		70

The Input Impedance values specified are based on swept frequency cable measurements per ISO/IEC 11801. No curve fitting or smoothing functions are used.

Frequency	Max Attenuation dB/100m	ELFEXT dB (min)	PS-ELFEXT dB (min)	Near-End Crosstalk dB (min)	PS-NEXT dB (min)	SRL dB (min)	Return Loss dB (min)
772 kHz	1.8	72.0	69.0	74.0	72.0	-	-
1 MHz	2.0	69.8	66.8	72.3	70.3	22.5	20.0
4 MHz	4.0	57.7	54.7	63.3	61.3	22.5	23.0
8 MHz	5.7	51.7	48.7	58.8	56.8	22.5	24.5
10 MHz	6.4	49.8	46.8	57.3	55.3	22.5	25.0
16 MHz	8.4	45.7	42.7	54.3	52.3	22.5	25.0
20 MHz	9.4	43.7	40.7	52.8	50.8	22.5	25.0
25 MHz	10.5	41.8	38.8	51.3	49.3	22.0	24.3
31.25 MHz	11.8	39.9	36.9	49.9	47.9	21.5	23.6
62.5 MHz	16.9	33.8	30.8	45.4	43.4	20.0	21.5
100 MHz	21.5	29.8	26.8	42.3	40.3	19.0	20.1
155 MHz	27.0	25.9	22.9	39.5	37.5	18.1	18.8
200 MHz	30.9	23.7	20.7	37.8	35.8	17.5	18.0

General Cable

DreamLAN® 2001 - 500 MHz

Category 6* • UTP • Spec. 4700 • Type MPR/CMR

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
7133420	4	24	Ivory	SPC	0.390 X 0.150	25
7133486	4	24	Blue	SPC	0.390 X 0.150	25

Data subject to change without notice. Contact your Customer Service Representative for latest information.

* Category 6 is currently under review by TIA/EIA and ISO/IEC.

Electrical Characteristics

DC Resistance (max) Ohms/100m (328ft) @ 20˚C		8.9
DC Resistance Unbalance (max) Individual Pair %		3.0
Delay Skew (max) ns/100m		25
Nom. Velocity of Propagation % Speed of Light		70
Characteristic Impedance		Ohms
Frequency (f):	1-500 MHz	100 ± 15%
Input Impedance		Ohms
Frequency (f):	1.0-100 MHz	100 ± 15
	100-350 MHz	100 ± 22
	350-500 MHz	100 ± 32

The Input Impedance values specified are based on swept frequency cable measurements per ISO/IEC 11801. No curve fitting or smoothing functions are used.

Frequency	ACR dB@100 m (min)	PS-ACR dB@100 m (min)	ELFEXT dB (min)	PS-ELFEXT m (min)	NEXT dB (min)	PS-NEXT dB (min.)	ATTEN. dB/100m max.	SRL dB (min)	Return Loss dB (min)
0.772 MHz	74	72	77	74	76.0	74.0	1.8	-	-
1 MHz	72	70	75	72	74.3	72.3	2.0	25.5	20.0
4 MHz	61	59	63	60	65.3	63.3	3.8	25.5	23.0
10 MHz	53	51	55	52	59.3	57.3	6.0	25.5	25.0
16 MHz	48	46	51	48	56.3	54.3	7.6	25.5	25.0
20 MHz	46	44	49	46	54.8	52.8	8.5	25.5	25.0
31.25 MHz	40	38	45	42	51.9	49.9	10.7	24.5	23.6
62.5 MHz	32	30	39	36	47.4	45.4	15.5	23.0	21.5
100 MHz	25	22	35	32	44.3	42.3	19.9	22.0	20.1
200 MHz	11	9	29	26	39.8	37.8	29.2	20.5	18.0
350 MHz	-	-	24	21	36.2	34.2	40.0	19.3	16.3
400 MHz	-	-	23	20	35.3	33.3	43.2	19.0	15.8
500 MHz	-	-	21	18	33.8	31.8	49.2	18.5	15.2

Note: PS-ACR, PS-ELFEXT, PS-NEXT, Attenuation and SRL are sweep frequency tested.

Color Code Chart

PAIR NO.	COLOR CODE
1	White/Blue & Blue
2	White/Orange & Orange
3	White/Green & Green
4	White/Brown & Brown

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying pair lays

Color Code:
- See chart below

Rip Cord:
- Longitudinally applied polyester

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- Sweep tested and characterized to 500 MHz
- Every master reel is tested for electrical performance
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with NEC Article 800-51 (b) (g)

Applications:
- Supports full and half duplex operation
- Digital video
- Broadband and baseband analog video
- 10 BASE-T
- 4/16 Mbps Token Ring
- 100 BASE VG AnyLAN
- 100 Mbps TP-PMDD
- 100 BASE-T
- 52/155 Mbps ATM
- 622 Mbps ATM
- 1.2 Gpbs ATM
- 1000 BASE-T (Gigabit Ethernet)

Compliances:
- ICEA S-90-661 (Category 5X-160)
- ISO/IEC 11801
- ANSI/TIA/EIA 568A-5 (Category 5e)
- Proposed Category 6*
- UL Listed Type MPR/CMR
- c(UL) CMG

Packaging:
- 1000' Spool-Pac® (SPC)
- Per order length (POL) packaging available on request.

Listed Type MPR/CMR

c UL us LISTED

TIA/EIA 568A

NEMA

General Cable

Command LINX® 6 - 500 MHz

Category 6* • UTP • Spec. 7251 • Type MPR/CMR

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying pair lays

Color Code:
- See chart below

Rip Cord:
- Longitudinally applied polyester

Jacket:
- Flame retardant PVC
- Sequential footage markings
- Other jacket colors available upon request

Features:
- Round cable/Cross Web Design
- Sweep tested and characterized to 500 MHz
- Every master reel is tested for electrical performance
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with NEC Article 800-51 (b) (g)

Applications:
- Supports full and half duplex operation
- Digital video
- Broadband and baseband analog video
- 10 BASE-T
- 4/16 Mbps Token Ring
- 100 BASE VG AnyLAN
- 100 Mbps TP-PMDD
- 100 BASE-T
- 52/155 Mbps ATM
- 622 Mbps ATM
- 1.2 Gpbs ATM
- 1000 BASE-T (Gigabit Ethernet)

Compliances:
- NEMA WC66
- ICEA S-90-661 (Category 5X-160)
- ISO/IEC 11801 Class E Draft
- ANSI/TIA/EIA 568A-5 (Category 5e)
- TIA/EIA Category 6* Draft
- UL Listed Type MPR/CMR
- c(UL) CMG

Packaging:
- 1000' Spool
- Per order length (POL) packaging available on request.

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
7133204	4	24	Gray	SP	0.250	26
7133300	4	24	Blue	SP	0.250	26
7133329	4	24	Gray	SPC	0.250	26
7133374	4	24	Blue	SPC	0.250	26

Data subject to change without notice. Contact your Customer Service Representative for latest information.

* Category 6 is currently under review by TIA/EIA and ISO/IEC.

Electrical Characteristics

DC Resistance (max) Ohms/100m (328ft) @ 20˚C		8.9
DC Resistance Unbalance (max) Individual Pair %		3.0
Delay Skew ns/100m		25
Nom. Velocity of Propagation % Speed of Light		70
Characteristic Impedance		Ohms
Frequency (f):	1-500 MHz	100 ± 15%
Input Impedance		Ohms
Frequency (f):	1.0-100 MHz	100 ± 15
	100-350 MHz	100 ± 22
	350-500 MHz	100 ± 32

The Input Impedance values specified are based on swept frequency cable measurements per ISO/IEC 11801. No curve fitting or smoothing functions are used.

Frequency	ACR dB@100 m (min)	PS-ACR dB@100 m (min)	ELFEXT dB (min)	PS-ELFEXT m (min)	NEXT dB (min)	PS-NEXT dB (min.)	ATTEN. dB/100 max.	SRL dB (min)	Return Loss dB (min)
0.772 MHz	78	76	77	74	80	78	1.8	-	-
1 MHz	76	74	75	72	78	76	2.0	25.5	20.0
4 MHz	65	63	63	60	69	67	3.8	25.5	23.0
10 MHz	57	55	55	52	63	61	6.0	25.5	25.0
16 MHz	52	50	51	48	60	58	7.6	25.5	25.0
20 MHz	50	48	49	46	58	56	8.5	25.5	25.0
31.25 MHz	44	42	45	42	55	53	10.7	24.5	23.6
62.5 MHz	36	34	39	36	51	49	15.4	23.0	21.5
100 MHz	28	26	35	32	48	46	19.8	22.0	20.1
200 MHz	15	13	29	26	44	42	29.0	20.5	18.0
250 MHz	10	8	27	24	42	40	32.8	20.0	18.3
350 MHz	-	-	24	21	40	38	39.8	19.3	16.3
400 MHz	-	-	23	20	39	37	43.0	19.0	15.8
500 MHz	-	-	21	18	38	36	48.9	18.5	15.2

Note: PS-ACR, PS-ELFEXT, PS-NEXT, Attenuation and SRL are sweep frequency tested.

Color Code Chart

PAIR NO.	COLOR CODE
1	White/Blue & Blue
2	White/Orange & Orange
3	White/Green & Green
4	White/Brown & Brown

General Cable

Flexible Patch Cordage

Category 5 • UTP • Spec. 4476 • Type CM

PRODUCT NUMBER	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133315	2	24	Gray	RL	0.16	12
2133273	4	24	Gray	RL	0.20	21
2133312	4	24	Blue	RL	0.20	21
2133311	4	24	Yellow	RL	0.20	21
2133313	4	24	Pink	RL	0.20	21
2133292	4	24	White	RL	0.20	21
2133293	4	24	Red	RL	0.20	21
2133319	4	24	Orange	RL	0.20	21
2133320	4	24	Beige	RL	0.20	21
2133338	4	24	Green	RL	0.20	21
2133462	4	24	Purple	RL	0.20	21

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20˚C		9.09
Mutual Capacitance (nom) pF/ft @ 1kHz		15
Characteristic Impedance		Ohms (min-max)
Frequency (f):	772 kHz	87-117
	1.0-100.0 MHz	85-115
Structural Return Loss (SRL)		dB (min)
Frequency (f):	1.0-20.0 MHz	23
	20.0-100.0 MHz	23-10 log(f/20)
Delay Skew (max) ns/100m		45

Frequency	Max Attenuation dB/100m (328ft)	Power Sum Near-End Crosstalk dB (min)
772 kHz	2.2	64
1 MHz	2.5	62
4 MHz	5.2	53
8 MHz	7.1	48
10 MHz	7.9	47
16 MHz	9.8	44
20 MHz	11.0	42
25 MHz	12.6	41
31.25 MHz	14.2	39
62.5 MHz	20.5	35
100 MHz	26.4	32

Product Construction:

Conductors:
- 24 AWG stranded (7/32) tinned copper

Insulation:
- Polyolefin, DOD - 0.039" (max)

Pairing:
- Varying short pair lay

Color Code:
- Bandmarked; see Color Code Chart on page 51

Ripcord:
- Applied longitudinally under jacket

Jacket:
- Flexible flame retardant PVC

Features:
- For use on patch panels in telecommunications wiring closets and connection of work area equipment to telecommunications modular wall outlets
- UL Listed Type CM for general horizontal applications when installed in accordance with the NEC Article 800-51 (b) (g)

Applications:
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM

Compliances:
- UL Listed Type CM
- UL Recognized AWM 2835
- c(UL) CMG
- ANSI/TIA/EIA 568A

Packaging:
- 5000' non-returnable reel (RL)
- 1000' non-returnable spool (SP)
- Per order lengths (POL) are available upon request

Listed Type CM

c UL us LISTED

TIA/EIA 568A

General Cable

Backbone Composite

Category 5 • UTP • Spec. 4490 • Type MPR/CMR

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Polyolefin

Pairing:
- Varying short pair lay

Color Code:
Each 4 Pair Unit:
- See chart below

Unit Jacket Colors:
- Color Coded, PVC:
  - Unit #1 White
  - Unit #2 Blue
  - Unit #3 Gray
  - Unit #4 Orange

Rip Cord:
- Applied longitudinally under each individual jacket and overall jacket

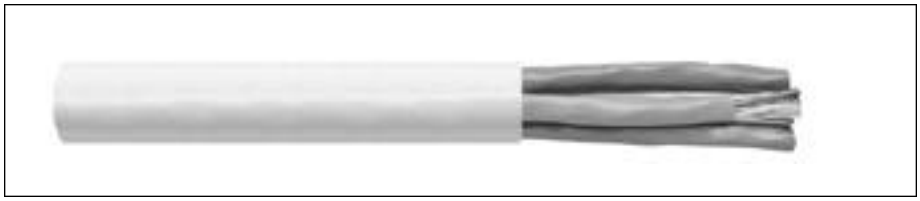
Outer Jacket:
- Flame retardant PVC
- Sequential footage markings

Features:
- Low attenuation and Power Sum crosstalk characteristics supporting high-speed data transmission (i.e. 100 Mbps, 155 Mbps, etc.)
- UL Listed Type MPR/CMR for installation in vertical riser and general horizontal applications when installed in accordance with the NEC Article 800-51(b) (g)

Applications:
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 VG-AnyLAN
- 100 Mbps TP-PMD/TPDDI (ANSI X3T9.5)
- 100 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- ANSI/TIA/EIA 568A (Category 5 Backbone)
- ANSI/ICEA S-90-661 (Category 5 Backbone)
- NEMA WC63.1 (Category 5 Backbone)

Packaging:
- 1000' non-returnable reel (RL)



PRODUCT NUMBER	# OF 4 PR. UNITS	PAIRS	AWG	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2131386	2	8	24	Gray	RL	0.44	56
2131387	3	12	24	Gray	RL	0.47	78
2131388	4	16	24	Gray	RL	0.58	98

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

		24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20˚C		8.9
Mutual Capacitance (nom) pF/ft @ 1kHz		14
Characteristic Impedance		Ohms (min-max)
Frequency (f):	772 kHz	87-117
	1.0-100.0 MHz	85-115
Structural Return Loss (SRL)		dB (min)
Frequency (f):	1.0-20.0 MHz	23
	20.0-100.0 MHz	23-10 log (f/20)
Nominal Velocity of Propagation (NVP) % Speed of Light		70

Frequency	Max Attenuation dB/100m (328ft)	Power Sum Near-End Crosstalk dB (min)
772 kHz	1.8	64
1 MHz	2.0	62
4 MHz	4.1	53
8 MHz	5.8	48
10 MHz	6.5	47
16 MHz	8.2	44
20 MHz	9.3	42
25 MHz	10.4	41
31.25 MHz	11.7	39
62.5 MHz	17.0	35
100 MHz	22.0	32

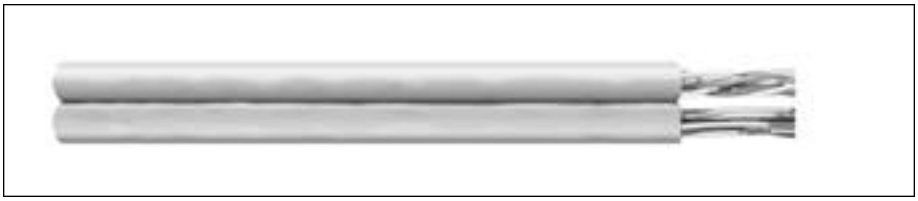
Color Code Chart

PAIR NO.	RING CONDUCTOR INSULATION COLOR	TIP CONDUCTOR	
		INSULATION COLOR	BANDMARK
1	Blue	White	Blue
2	Orange	White	Orange
3	Green	White	Green
4	Brown	White	Brown

General Cable

Gen-MATE®

Category 3 or 5 Legs • UTP • Spec. 4495 • Type MPR/CMR



PRODUCT NUMBER	LEGS X PAIRS	AWG	JACKET COLOR	CATEGORY		PKG.	O.D. (INCHES)	WEIGHT (LBS/KFT)
				LEG 1	LEG 2			
2133297	2 x 4	24	Gray	Category 3	Category 5	SP	0.19 x 0.39	42
2133298	2 x 4	24	Gray	Category 5	Category 5	SP	0.19 x 0.39	42

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

Applicable horizontal cable category requirements per TIA/EIA 568A, ANSI/ICEA S-90-661 & NEMA WC 63-1

Product Construction:

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- CAT-5 Polyolefin
- CAT-3 Semi-rigid PVC

Pairing:
- Varying pair lays

Color Code:
- Bandmarked; see Color Code Chart on page 51

Ripcord:
- Applied longitudinally under each jacket leg

Jacket:
- Flame retardant PVC
- One leg shall be printed with applicable category and UL information. The cable legs shall be referenced with the printed leg as “Leg 1” and the unprinted leg as “Leg 2.”
- Sequential footage markings

Features:
- All pairs meet the applicable Category Power Sum NEXT backbone wiring transmission requirements
- Provides wiring for a minimum of two outlets
- Adjoining web allows easy separation by hand
- Easy identification of each leg’s performance category
- UL Listed Type MPR/CMR for installation in vertical riser shafts and general horizontal applications when installed in accordance with the NEC Article 800-51(b) (g)

Applications:

CAT-3 LEG
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4 Mbps Token Ring (IEEE 802.5)
- 100 VG-AnyLAN
- 52 Mbps ATM

CAT-5 LEG(S)
- Voice
- T1
- 10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE B02.5)
- 52/155 Mbps ATM
- 100 VG-AnyLAN
- 100 Mbps TP PMD/TPDDI (ANSI X3T9.5)
- 100 BASE-T (IEEE 802.3)

Compliances:
- UL Listed Type MPR/CMR
- c(UL) CMG
- ANSI/TIA/EIA 568A (Category as applicable)
- ANSI/ICEA S-90-661 (Category as applicable)
- NEMA WC63.1 (Category as applicable)

Packaging:
- 1000' spool (SP)
- Per order lengths (POL) are available upon request

Listed Type MPR/CMR

c UL us LISTED

TIA/EIA 568A

NEMA

General Cable