

# WIRE



## TELEPHONE WIRE



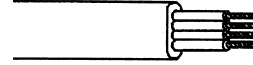
### Station Wire

Jacket: Round, PVC  
Jacket Color: Beige  
Conductor: Solid Copper

**Application:** Economical, single line straight lay telephone hook-ups.

Part No.	AWG	No. of Conductors	Length	Put-Up
*30-9903	24	4	100 ft.	Hank
30-9956	24	4	100 ft.	Hank
30-9984	24	4	500 ft.	Shrink Bag
30-9998	24	4	1000 ft.	Shrink Bag
30-9999	24	6	1000 ft.	Shrink Bag
30-9902	22	4	25 ft.	Hank
30-9900	22	4	50 ft.	Hank
30-9901	22	4	100 ft.	Hank
30-9985	22	4	500 ft.	Shrink Bag
30-9986	22	4	1000 ft.	Shrink Bag
30-9969	22	6	100 ft.	Hank
30-9996	22	6	500 ft.	Shrink Bag
30-9989	22	6	1000 ft.	Shrink Bag

\*UL Listed Type CMX  
CSA Type CMG



### Flat Line Cord

Jacket: PVC  
Conductor: 26 AWG-Stranded Copper

**Application:** For indoor use in connecting telephone unit to wall outlets, handset, answering machines, etc. Terminate with standard modular plugs.

Part No.	No. of Conductor	Length	Color	Put-Up
30-9920	4	50 ft.	Ivory	Hank
30-9927	4	50 ft.	Silver	Hank
30-9922	4	100 ft.	Ivory	Hank
30-9928	4	100 ft.	Silver	Hank
30-9990	4	500 ft.	Silver	Shrink Bag
30-9992	4	500 ft.	Ivory	Shrink Bag
30-9929	4	1000 ft.	Silver	Spool
30-9963	4	1000 ft.	Ivory	Spool
30-9933	6	100 ft.	Ivory	Hank
30-9938	6	100 ft.	Silver	Hank
30-9994	6	500 ft.	Silver	Shrink Bag
30-9939	6	1000 ft.	Silver	Spool
30-9966	6	1000 ft.	Ivory	Spool
30-9948	8	500 ft.	Silver	Spool
30-9949	8	1000 ft.	Silver	Spool

### Conductor Color Key

Station & Flat Line Cord Only

4 Conductor	6 Conductor	8 Conductor
Black	White	Blue
Red	Black	Orange
Green	Red	Black
Yellow	Green	Red
	Yellow	Green
	Blue	Yellow
		Brown
		White

### Shrink Bag

- Durable & Waterproof
- Easy pullout
- Holds shape without uncoiling
- View remaining cable
- Space saving



### Hank

- Card or tab retail packing
- Great for showroom display
- Suggestive selling on back



### Spool

- Traditional put up
- Easy to read labeling
- Plastic wrapped, no rubber bands



For the latest information—[www.gcelectronics.com](http://www.gcelectronics.com)  
All quantities are single; BU's are packages of 10 Unless otherwise noted.

**VOICE AND COMMUNICATION WIRE**

**CAT 3 24 AWG Twisted Pair Phone Wire**



**Specifications:**

UL Listed: CMR rated 2,3,4,6 pair  
 Conductor: 24 AWG Solid Bare Copper  
 Conductor O.D.: .0201 Insulation  
 Nominal Thickness: Polyethylene .008  
 Jacket: PVC – Beige  
 Nominal Jacket O.D.: .018  
 DC Resistance: 28.06 ohms/1000 ft. max.  
 Impedance: 1.0-16.0 MHz - 100 ohms +/- 15%  
 Structural Return Loss (dB): 1.0-10.0 MHz = 12

**Color Coded**

Pair #	1st Cond. Base/Band	2nd Cond. Base/Band
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

**Attenuation**

(dB/meters at 20°C):	
256Khz	1.3dB
772KHz	2.2dB
1.0MHz	2.6dB
4.0	5.6dB
8.0	8.5dB
9.0	9.7dB

Part No.	Length	Color	Rating	Nom. O.D.	Pkg.	Pairs
30-9973	100 ft.	Beige	CMR	.140	Hank	3
14-624-4L89	1000 ft.	Beige	CMR		Pull-Out Box	2
14-624-6L89	1000 ft.	Beige	CMR	.160	Pull-Out Box	3
14-624-8L89	1000 ft.	Beige	CMR		Pull-Out Box	4
14-624-9L89	1000 ft.	Beige	CMR	.140	Pull-Out Box	6

**CAT 3 22 AWG Twisted Pair Phone Wire**



**Specifications:**

UL Listed: CMR rated 2 & 3 pair  
 Conductor: 22 AWG Solid Bare Copper  
 Conductor O.D.: .0253 Insulation  
 Nominal Thickness: Polyethylene .008  
 Jacket: PVC – Beige  
 Nominal Jacket O.D.: .018  
 DC Resistance: 18.0 ohms/1000 ft. max.  
 Impedance: 1.0-16.0 MHz - 100 ohms +/- 15%  
 Structural Return Loss (dB): 1.0-10.0 MHz = 12

**Color Coded**

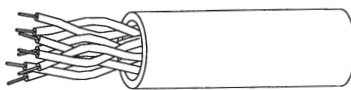
Pair #	1st Cond. Base/Band	2nd Cond. Base/Band
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

**Attenuation**

(dB/meters at 20°C):	
256Khz	1.3dB
772KHz	2.2dB
1.0MHz	2.6dB
4.0	5.6dB
8.0	8.5dB
9.0	9.7dB

Part No.	Length	Color	Rating	Nom. O.D.	Pkg.	Pairs
14-622-4L89	1000 ft.	Beige	CMR	.180	Pull-Out Box	2

**CAT 5 Unshielded Twisted Pair**



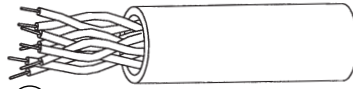
**Features:** Meets EIA/TIA 568-B.2 Specifications, Ascending Foot Marks. Convenient Pull-out Box Packaging. Speed is up to 100MHz.

**Applications:** Voice, Datacom Transmission, Networking/Residential Structured Cabling

**Category 5 Unshielded Twisted Pair - Up to 100 MHz**

Part Number	Color	Length	No. Of Pairs	Conductor (O.D.)	Insulation (O.D.)	Jacket Material (Thickness)	Cable O.D.	Type
14-554-8B88	Gray	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.20mm)	PVC (0.68mm)	.220mm	CMR
14-555-8L68	Gray	500'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.20mm)	PVC (0.68mm)	5.6mm	CMR

## VOICE AND COMMUNICATION WIRE (Cont.)



### Category 5e UTP - 350 MHz Swept



Part Number	Color	Length	No. Of Pairs	Conductor (O.D.)	Insulation (O.D.)	Jacket Material (Thickness)	Cable O.D.	Type
14-1350-8L89	Blue	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2mm	CMR/MPR
14-1350-8L87	Yellow	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2mm	CMR/MPR
14-1350-8L85	Gray	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2mm	CMR/MPR
14-1350-8L83	White	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2mm	CMR/MPR
14-1350-8L81	Pink	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2 mm	CMR/MPR
14-1350-8L82	Orange	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2 mm	CMR/MPR
14-1350-8L84	Red	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2 mm	CMR/MPR
14-1350-8L86	Green	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2 mm	CMR/MPR
14-1350-8L88	Violet	1000'	4	24 AWG Solid Bare Copper (0.50mm)	HD Polyethylene (.93mm)	PVC (0.5mm)	5.2 mm	CMR/MPR

### Category 6e UTP - 550 MHz Swept



Part Number	Color	Length	No. Of Pairs	Conductor (O.D.)	Insulation (O.D.)	Jacket Material (Thickness)	Cable O.D.	Type
14-1550-8L89	Blue	1000'	4 with rip cord	24 AWG Solid Bare Copper (0.559mm)	Polyethylene (0.88mm)	PVC (0.42mm)	5.99 mm	CMR/MPR

### Electrical Specifications

Frequency (MHz)	Max Attenuation (db/100m)		Min Next (db/100m)		ACR (db/100m)		Min PS-Next (db/100m)		PS-ACR (db/100m)		Min Return Loss (db/100m)		Min Elfext (db/100m)		Min PS-Elfext (db/100m)	
	Cat 5e	Cat 6e	Cat 5e	Cat 6e	Cat 5e	Cat 6e	Cat 5e	Cat 6e	Cat 5e	Cat 6e	Cat 5e	Cat 6e	Cat 5e	Cat 6e	Cat 5e	Cat 6e
1	2.0	2.0	68.3	77.3	66.3	75.0	66.3	75.3	64.6	73.0	20.0	20.0	63.8	70.8	60.8	67.8
4	4.1	3.8	59.3	68.3	55.2	64.0	57.3	66.3	53.2	62.0	23.0	23.6	51.7	58.7	48.7	55.7
8	5.8	5.3	54.8	63.8	49.0	57.7	52.8	61.8	47.0	55.7	24.5	25.4	45.7	52.7	42.7	49.7
10	6.5	5.9	53.3	62.3	46.8	55.6	51.3	60.3	44.8	53.6	25.0	26.0	43.8	50.8	40.8	47.8
16	8.2	7.4	50.3	59.3	42.1	50.7	48.3	57.3	40.1	48.7	25.0	26.0	39.7	46.7	36.7	43.7
20	9.3	8.3	48.8	57.8	39.5	48.2	46.8	55.8	37.5	46.2	25.0	26.0	37.7	44.7	34.7	41.7
25	10.4	9.3	47.3	56.3	36.9	45.6	45.3	54.3	34.9	43.6	24.3	25.5	35.8	42.8	32.8	39.8
31.25	11.7	10.4	45.9	54.9	34.2	42.8	43.9	52.9	32.2	40.8	23.6	25.0	33.9	40.9	30.9	37.9
62.5	17.0	14.9	41.4	50.4	24.4	32.9	39.4	48.4	22.4	30.9	21.5	23.5	27.8	34.8	24.8	31.8
100	22.0	19.0	38.3	47.3	16.3	24.9	36.3	45.3	14.3	22.9	20.1	22.5	23.8	30.8	20.8	27.8
155	28.1	23.9	35.5	45.8	7.4	21.0	33.5	43.5	5.4	21.5	18.8	21.6	20.0	27.0	17.0	23.6
200	23.4	27.4	33.8	42.8	1.4	18.4	31.8	40.8		16.4	18.0	21.0	17.7	24.7	14.7	21.7
250	36.0	30.8	32.6	41.3		13.5	30.6	39.3		11.5	17.4	20.5	16.2	22.8	13.2	19.8
300	41.0	34.0	31.2	40.2		9.6	29.2	38.2		5.0	16.8	20.1	14.2	21.2	11.2	18.2
350	44.9	37.0	30.1	39.2		5.2	28.1	37.2		3.2	16.3	19.8	12.9	19.9	9.9	16.9
400		39.7		38.3		1.5		36.3				19.5				15.7
450		42.1		37.5				35.5				19.2				14.7
500		44.9		36.8				34.8				19.0				13.8
550		47.3		36.2				34.2				18.8				12.9

Impedance (Ohms): 100+/-15  
 Delay Skew: 45ns/100m  
 VOP: 69%  
 DC Resistance: 28.6 Ohm/1000 ft.

**Cat 5e** 100+/-15  
 25ns/100m  
 70%  
 28.6 Ohm/1000 ft.

**Cat 6e** 100+/-15  
 25ns/100m  
 70%  
 28.6 Ohm/1000 ft.

**Conductor Color Key (UTP Only)**  
 Pair 1: Blue/White, Blue  
 Pair 2: Orange/White, Orange  
 Pair 3: Green/White, Green  
 Pair 4: Brown/White, Brown

NEXT = Near-End Crosstalk  
 ACR = Attenuation Crosstalk Ratio  
 PS-NEXT = PowerSum Near-End Crosstalk  
 ELFEXT = Equal Level Far-End Crosstalk  
 PS-ELFEXT = PowerSum Equal Level Far-End Crosstalk  
 UTP = Unshielded Twisted Pair  
 FEP = Fluorinated Ethylene-Propylene  
 VOP = Velocity of Propagation

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