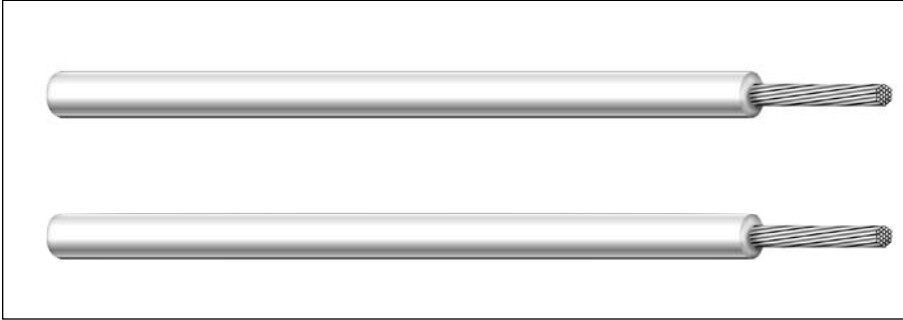


Hook-Up Wire



Most applications of hook-up and lead wire for board-to-board or point-to-point wiring rely on PVC-insulated designs.

General Cable's Carol® Brand products offer both electrical and electronic designers a vast array of quality PVC hook-up wire to meet the specific technical demands of today, with "off-the-shelf" distributor inventoried products.

Hook-up wire is also available in special colors and/or stripe combinations with a minimum of lead time. In addition, General Cable offers a variety of put-ups to meet individual customer requirements.

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UL 1007, UL 1569, CSA TR-64



Product Construction:

Conductor:

- 24 thru 16 AWG
- Fully annealed tinned copper per ASTM B-33
- Solid or stranded

Insulation:

- Premium-grade, color-coded PVC
- Temperature range: -20°C to +105°C
- Color code: See chart below

Applications:

- Internal wiring of electrical and electronic equipment
- Internal wiring of panels and meters
- Point-to-point wiring
- Suggested voltage rating: 300 volts

Compliances:

- UL Style 1007 – 80°C, 300V
- UL Style 1569 – 105°C, 300V
- CSA TR-64 – 90°C, 300V
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL VW-1 Vertical Wire Flame Test

Packaging:

- Please contact Customer Service for packaging and color options

CATALOG NUMBER	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.	
			INCHES	mm	INCHES	mm

SOLID CONDUCTORS

C2003A	24	Solid	0.016	0.41	0.052	1.32
C2004A	22	Solid	0.016	0.41	0.057	1.45
C2028A	20	Solid	0.016	0.41	0.064	1.63
C2052A	18	Solid	0.016	0.41	0.072	1.83
C2053A	16	Solid	0.016	0.41	0.083	2.11

STRANDED CONDUCTORS

C2015A	24	7/32	0.016	0.41	0.056	1.42
C2016A	22	7/30	0.016	0.41	0.062	1.57
C2040A	20	10/30	0.016	0.41	0.070	1.78
C2064A	18	16/30	0.016	0.41	0.080	2.03
C2065A	16	26/30	0.016	0.41	0.092	2.34

Color Code Chart

ORDERING SUFFIX	COLORS	ORDERING SUFFIX	COLORS
01	Black	06	Green
02	White	07	Blue
03	Red	08	Brown
04	Orange	10	Gray
05	Yellow	19	Violet

Striped combinations available upon request; consult Customer Service.



Designed to Meet
UL VW-1 Vertical
Wire Flame Test

Underwriters Laboratories Inc.



UL 1015, CSA TEW

Product Construction:

Conductor:

- 24 thru 10 AWG
- Fully annealed tinned copper per ASTM B-33
- Solid or stranded

Insulation:

- Premium-grade, color-coded PVC
- Temperature range: -20°C to +105°C
- Color code: See chart below

Applications:

- Internal wiring of electrical and electronic equipment
- Internal wiring of panels and meters
- Point-to-point wiring
- Suggested voltage rating: 600 volts

Compliances:

- UL Style 1015 – 105°C, 600V
- CSA Type TEW
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL VW-1 Vertical Wire Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.	
			INCHES	mm	INCHES	mm

SOLID CONDUCTORS

C2117A	22	Solid	0.032	0.81	0.089	2.26
C2118A	20	Solid	0.032	0.81	0.096	2.44
C2119A	18	Solid	0.032	0.81	0.104	2.64

STRANDED CONDUCTORS

C2100A	24	7/32	0.032	0.81	0.088	2.24
C2101A	22	7/30	0.032	0.81	0.094	2.39
C2102A	20	10/30	0.032	0.81	0.102	2.59
C2103A	18	16/30	0.032	0.81	0.112	2.84
C2104A	16	26/30	0.032	0.81	0.124	3.15
C2105A	14	41/30	0.032	0.81	0.141	3.58
C2106A	12	65/30	0.032	0.81	0.160	4.06
C2107A	10	105/30	0.033	0.84	0.184	4.67

Color Code Chart

ORDERING SUFFIX	COLORS	ORDERING SUFFIX	COLORS
01	Black	06	Green
02	White	07	Blue
03	Red	08	Brown
04	Orange	10	Gray
05	Yellow	19	Violet

Striped combinations available upon request; consult Customer Service.

MIL-W-76B

Type MW



Product Construction:

Conductor:

- 24 thru 12 AWG
- Fully annealed stranded tinned copper per ASTM B-33

Insulation:

- Premium-grade, color-coded PVC
- Type MW: Medium wall
- Temperature range: -12°C to +90°C
- Color code: See chart below

Applications:

- Internal wiring of electrical and electronic equipment
- Internal wiring of panels and meters
- Point-to-point wiring
- Suggested voltage rating: 1000 volts (MIL-W-76B)
- Non QPL

Compliances:

- RoHS Compliant Directive 2002/95/EC

Packaging:

- Please contact Customer Service for packaging and color options

CATALOG NUMBER	TYPE DESIGNATION	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.	
				INCHES	mm	INCHES	mm

MIL-W-76B TYPE MW (MEDIUM WALL)

C7600A	MW-C24(7)U	24	7/32	0.016	0.41	0.056	1.42
C7602A	MW-C22(7)U	22	7/30	0.016	0.41	0.062	1.57
C7604A	MW-C20(10)U	20	10/30	0.016	0.41	0.070	1.78
C7606A	MW-C18(16)U	18	16/30	0.016	0.41	0.080	2.03
C7608A*	MW-C16(26)U	16	26/30	0.016	0.41	0.092	2.34
C7610A*	MW-C14(41)U	14	41/30	0.016	0.41	0.109	2.77
C7611A*	MW-C12(65)U	12	65/30	0.016	0.41	0.128	3.25

*-25°C to +105°C

Color Code Chart

ORDERING SUFFIX	COLORS	ORDERING SUFFIX	COLORS
01	Black	06	Green
02	White	07	Blue
03	Red	08	Brown
04	Orange	10	Gray
05	Yellow	19	Violet

Striped combinations available upon request; consult Customer Service.

UL Types MTW, TFF, AWM & CSA TEW

90°C 600 Volt MTW, TFF 105°C 600 Volt AWM/TEW

Product Construction:

Conductor:

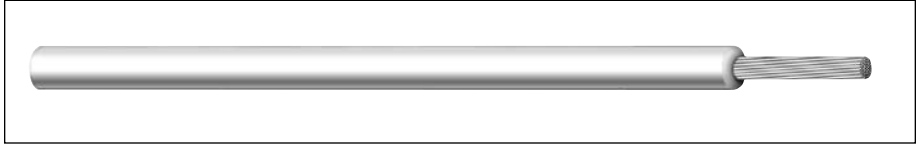
- 18 through 8 AWG fully annealed stranded bare copper per ASTM B-8

Insulation:

- Premium-grade, color-coded PVC
- Temperature range:
MTW: -40°C to +90°C
TEW/AWM: -20°C to +105°C
- Color code: See chart below

Jacket Marking:

- 18 and 16 AWG:
CAROL (SIZE) 600V E# MTW (UL) OR
TFF OR AWM VW-1 --- CSA TEW 105°C
FT-1
- 14 through 8 AWG:
CAROL (SIZE) 600V E# MTW (UL) OR
AWM VW-1 --- CSA TEW 105°C FT-1



CATALOG NUMBER	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.		STOCK COLORS	APPROX. NET WEIGHT LBS/M ⁽⁹⁾
			INCHES	mm	INCHES	mm		
UL TYPE MTW, AWM, TFF, CSA TYPE TEW-600 VOLT								
76502	18	16/30	0.032	0.81	0.110	2.79	1-12	10
76512	16	26/30	0.032	0.81	0.123	3.12	1-12	14
76812	14	19/.0159	0.032	0.81	0.136	3.40	1-12	20
76822	12	19/.0185	0.032	0.81	0.155	3.91	1-7	28
76832	10	19/.0234	0.032	0.81	0.179	4.55	1-5	42
76843	8	19/.0295	0.047	1.19	0.242	6.15	1-5	72

⁽⁹⁾ Actual shipping weight may vary.

Applications:

- Motor and transformer lead
- External wiring of machinery
- Internal wiring of electrical and electronic equipment
- Internal wiring of panels and meters
- Point-to-point wiring

Features:

- Outstanding oil, flame and moisture resistance
- Extra flexible

Compliances:

- UL and NMTBA Type MTW/AWM
- CSA TEW
- RoHS Compliant Directive 2002/95/EC
- Passes VW-1 Vertical Flame Test
- AWM Style 1015 – 18-8 AWG
- AWM Style 1335 – 18-10 AWG
- AWM Style 1336 – 8 AWG

Packaging:

- Please contact Customer Service for packaging and color options

Color Code Chart

ORDERING SUFFIX	COLORS	ORDERING SUFFIX	COLORS
01	Black	04	Orange
02	White	08	Brown
03	Red	19	Purple
07	Blue	10	Gray
06	Green	13	Pink

Heavy Wall UL Types MTW, AWM & NEC Type THW

90°C 600 Volts



CATALOG NUMBER	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT LBS/m ^(S)
			INCHES	mm	INCHES	mm	
AWM, MTW, THW – 600 VOLT – UL							
76954	6	19/.0372	0.064	1.63	0.315	8.00	110
76994	4	19/.0469	0.065	1.65	0.365	9.27	150

^(S)Actual shipping weight may vary.

Product Construction:

Conductor:

- 6 and 4 AWG fully annealed stranded bare copper per ASTM B-8

Insulation:

- Premium-grade, color-coded PVC, black
- Temperature range: -40°C to +90°C

Jacket Marking:

- CAROL 6 AWG 600V E# MTW OR THW (UL) OR AWM

Applications:

- Motor and transformer lead
- External wiring of machinery

Features:

- Outstanding oil, flame and moisture resistance
- Extra flexible

Compliances:

- UL Type AWM
- UL and NMTBA Type MTW
- NEC Type THW
- RoHS Compliant Directive 2002/95/EC
- Passes UL VW-1 Vertical Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



Designed to Meet
UL VW-1 Vertical
Wire Flame Test

Underwriters Laboratories Inc.



Rubber/PVC/Polyethylene

Product Construction:

Conductor:

- 20, 18 and 14 AWG
- Fully annealed stranded tinned copper per ASTM B-33

Insulation:

- Premium-grade, color-coded rubber, PVC or polyethylene
- Temperature range:
 - 20°C to +60°C rubber
 - 25°C to +60°C PVC
 - 20°C to +80°C polyethylene
- Color code: See chart below

Applications:

- Test equipment
- Oscillators

Compliances:

- RoHS Compliant Directive 2002/95/EC

Packaging:

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		BREAKDOWN VOLTAGE (AC, rms)	WORKING VOLTAGE*	NOMINAL O.D.	
				INCHES	mm			INCHES	mm

RUBBER TEST LEAD

C1326	1	20	41/36	0.040	1.02	6,000V	1,500V	0.125	3.18
C1319	1	20	41/36	0.047	1.19	12,000V	3,000V	0.140	3.56
C1321	1	18	65/36	0.045	1.14	20,000V	5,000V	0.145	3.68
C1318	1	18	65/36	0.088	2.24	29,000V	10,000V	0.230	5.84

PVC TEST LEAD

C1320A	1	18	65/36	0.047	1.19	20,000V	5,000V	0.140	3.56
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POLYETHYLENE TEST LEAD

C7108A	1	14	105/34	0.032	0.81	4,000V	600V	0.140	3.56
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*For intermittent duty only.

Color Code Chart

ORDERING SUFFIX	COLORS
01	Black
03	Red
06	Green