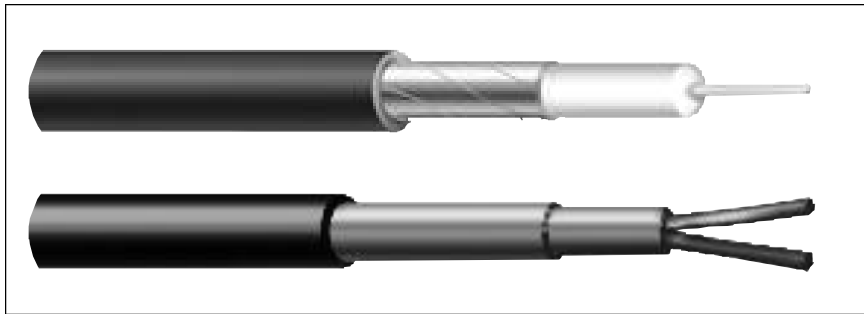


# Coaxial Cable



To meet the needs of today's sophisticated, high speed, wide bandwidth electronics, over long distances, with minimum signal loss or degradation, BICCGeneral Carol® Brand offers a wide range of coaxial and twinaxial designs in both unbalanced arrays and precision balanced pairs. This offers the system designer a wide choice of cost effective products that reflect the most recent changes in the standards set by UL, CSA and/or the FCC.

Included in this section are recommended Carol® Brand coaxial products for the CATV market. However, these constructions may differ in certain parts of the country.

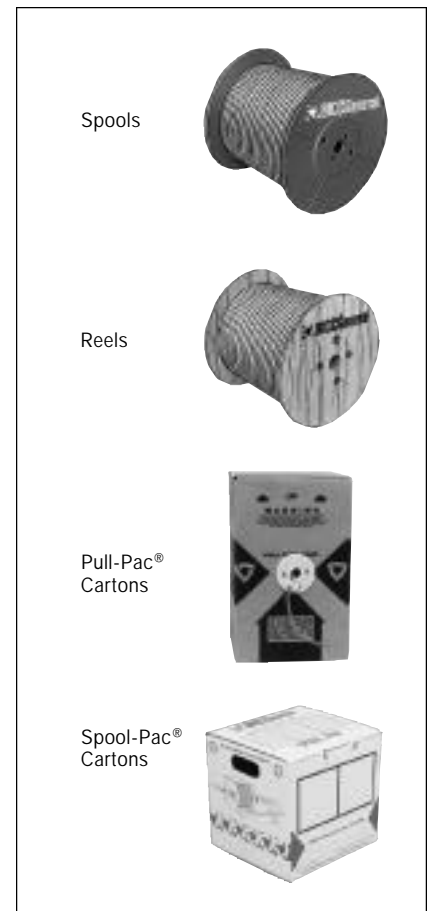
Unlike other products in the electronic market, coaxial cable does not have one accepted standard construction.

BICCGeneral recommends, in order to avoid installing an unacceptable coaxial cable for the CATV application in your area, the local CATV company should be consulted.

BICCGeneral's Carol® Brand product mix encompasses standard RG/U-type coaxial constructions in the more popular 50, 75 and 93 ohm designs and miniature coaxial products for smaller high speed applications.

The twinaxial products meet or exceed the stringent demands of today's precision balanced pair systems. The minimization of capacitance unbalance is a necessary requirement for long distance data transmission.

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# RG 6/U Type

**Product Construction:**

**Conductors:**

- Copper per ASTM B-3
- Copper clad steel per ASTM B-869

**Insulation/Core:**

- Cellular polyethylene

**Shield:**

- Bare copper or aluminum braid
- Flexfoil® shield

**Jacket:**







- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- CATV
- CCTV
- Local area network
- Drop cable
- FM broadcast
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C5760 RG 6/U Type 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® 30 Ga. CCS Spiral Served Shield 2.5 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.180	4.57		0.240	6.10					10	0.81
C5761 RG 6/U Type CCTV NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Bare Copper 6.5 Ω/M	Cellular Polyethylene		100% Flexfoil® +95% Bare Copper Braid 2.6 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.180	4.57		0.270	6.86					10	0.81
C5774 RG 6/U Type NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +40% Aluminum Braid 10.5 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.177	4.50		0.267	6.78					10	0.81
C5775 RG 6/U Type NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 9.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.177	4.50		0.263	6.68					10	0.81
C5776 RG 6/U Type NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +95% Aluminum Braid 4.4 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.177	4.50		0.267	6.78					10	0.81
C5785 RG 6/U Type Quad-Shield NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		(2) 100% Flexfoil® 1st Bonded (1) 60% (1) 40% Aluminum Braids 3.7 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.177	4.50		0.292	7.42					10	0.81



# RG 6/U Type

**Product Construction:**

- Conductors:**
- Copper per ASTM B-3
  - Copper clad steel per ASTM B-869
- Insulation/Core:**
- Solid and cellular polyethylene designs
- Shield:**
- Tinned, bare copper or aluminum braid
  - Flexfoil® shield

**Jacket:**

- Premium PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- CATV
- MATV
- LAN cable
- Digital video
- Direct burial
- See Coaxial Cable Product Finder, page 175-176







CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C5777 RG 6/U Type NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +61% Tinned Copper Braid 6.5 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.177	4.50		0.260	6.60					10	0.81
C5802 RG 6/U Type Messengered, Self-Supporting 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 9.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.180	4.57		0.270	6.86					10	0.81
C5804 RG 6/U Type MoistureGuard™ Direct Burial, Flooded 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid w/ water block 9.0 Ω/M	Permaline® Black, Orange PE		16.20	53.15	85	75	1	0.26
		0.180	4.57		0.270	6.86					10	0.81
C5810 RG 6/U Type Special Applications MATV Cable 	21 Ga. Solid Copper Clad Steel 32.0 Ω/M	Solid Polyethylene		(2) Bare Copper 95% Braids 1.1 Ω/M	Permaline® Black PE		20.50	67.26	66	75	1	0.40
		0.185	4.70		0.332	8.43					10	0.80
C5812 RG 6/U Type LAN Cable IEEE 802.4 MAP Type NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +77% Aluminum Braid +100% Flexfoil® 5.4 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26
		0.177	4.50		0.290	7.37					10	0.81
C5814 RG 6/U Type Digital Video NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Bare Copper 6.5 Ω/M	Cellular Polyethylene		100% Flexfoil® +95% Tinned Copper Braid 2.7 Ω/M	Black PVC		16.20	53.15	85	75	1	0.20
		0.180	4.57		0.270	6.86					10	0.72

Figure 8. Contains 0.051" galvanized steel messenger wire.



# RG 6/U Type

**Product Construction:**

**Conductors:**

- Copper per ASTM B-3
- Copper clad steel per ASTM B-869

**Insulation/Core:**

- Cellular polyethylene design
- Cellular FEP design

**Shield:**

- Tinned copper or aluminum braid
- Flexfoil® shield

**Jacket:**







- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- LAN cable
- Digital video
- Direct broadcast satellite
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE	NOMINAL ATTENUATION		
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'	
C5820 RG 6/U Type DBS NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 9.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26	
		0.177	4.50		0.267	6.78					10	0.81	
C5822 RG 6/U Dual-Type DBS NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Copper Clad Steel 28.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 9.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26	
		0.180	4.57		0.270	6.86					10	0.81	
C5824 RG 6/U Type DBS w/Ground NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Bare Copper 6.5 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 9.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.26	
		0.180	4.57		0.270	6.86					10	0.81	
Contains 17 AWG (.045") CCS ground wire.												50	1.46
C5826 RG 6/U Dual-Type DBS w/ Ground NEC CL2, CATV, CM CEC CM 	18 Ga. Solid Bare Copper 6.5 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 9.0 Ω/M	Black PVC		16.20	53.15	85	75	100	2.05	
		0.180	4.57		0.270	6.86					200	2.83	
Contains 17 AWG (.045") CCS ground wire.												500	4.53
C3523 RG 6/U Type Plenum NEC CL2P, CMP CEC CMP 	18 Ga. Solid Bare Copper 6.5 Ω/M	Cellular FEP		100% Flexfoil® +61% Tinned Copper Braid 2.3 Ω/M	Flexguard® PVC Natural		16.40	52.50	82	75	1000	9.40	
		0.170	4.318		0.226	5.74					10	1.40	
C3521 RG 6/U Type Plenum NEC CL2P, CMP CEC CMP 	18 Ga. Solid Bare Copper 6.5 Ω/M	Cellular FEP		100% Flexfoil® +95% Tinned Copper Braid 2.3 Ω/M	Flexguard® PVC Natural		16.00	52.50	86	75	50	1.50	
		0.170	4.318		0.233	5.92					100	2.10	
												200	3.10
												500	5.00
												1000	7.30



# RG 7/U Type

**Product Construction:**

- Conductors:**
- Copper clad steel per ASTM B-869
- Insulation/Core:**
- Cellular polyethylene
- Shield:**
- Aluminum braid
  - Flexfoil® shield

**Jacket:**





- Premium grade PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- CATV
- Local area network
- Drop cable
- FM broadcast
- Direct Burial
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C5851 RG 7/U Type NEC CL2, CATV, CM CEC CM 	16 Ga. Solid Copper Clad Steel 18.2 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +61% Aluminum Braid 5.6 Ω/M	Black PVC		16.20	53.15	85	75	1	0.35
		0.225	5.72		0.341	8.66					10	0.77
C5853 RG 7/U Type MoistureGuard™ Direct Burial, Flooded  FlexFill®	16 Ga. Solid Copper Clad Steel 18.2 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +61% Aluminum Braid 5.6 Ω/M	Permaline® Orange, Black PE		16.20	53.15	85	75	1	0.35
		0.225	5.72		0.322	8.18					10	0.77
C5856 RG 7/U Type Tri-Shield NEC CL2, CATV, CM CEC CM 	16 Ga. Solid Copper Clad Steel 18.2 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +61% Aluminum Braid 100% Flexfoil® 4.5 Ω/M	Black PVC		16.20	53.15	85	75	1	0.35
		0.225	5.72		0.341	8.66					10	0.77
C5857 RG 7/U Type Quad-Shield NEC CL2, CATV, CM CEC CM 	16 Ga. Solid Copper Clad Steel 18.2 Ω/M	Cellular Polyethylene		(2) 100% Flexfoil® 1st Bonded (1) 60% (1) 40% Aluminum Braids 3.4 Ω/M	Black PVC		16.20	53.15	85	75	1	0.35
		0.225	5.72		0.360	9.14					10	0.77



# RG 8/U Type

**Product Construction:**

**Conductors:**

- Copper per ASTM B-3

**Insulation/Core:**

- Solid and cellular polyethylene designs

**Shield:**

- Tinned or bare copper braid
- Flexfoil® shield

**Jacket:**





- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- Broadcast
- Citizen band antenna
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C1108 RG 8/U Mini Type NEC CL2, CM CEC CM UL 1354 	16 Ga. (19x28) Bare Copper 4.2 Ω/M	Cellular Polyethylene		95% Bare Copper Braid 3.3 Ω/M	Black PVC		25.30	83.01	80	50	1	0.26
		0.155	3.94		0.242	6.15					10	0.98
C1154 RG 8/U Type JAN-C-17A Type UL 1354 	13 Ga. (7X21) Bare Copper 1.9 Ω/M	Solid Polyethylene		95% Bare Copper Braid 1.2 Ω/M	Black PVC		29.50	96.79	66	52	1	0.16
		0.285	7.24		0.405	10.29					10	0.56
C1198 RG 8/U Type UL 1354 	11 Ga. (19X24) Bare Copper 1.9 Ω/M	Cellular Polyethylene		95% Bare Copper Braid 1.1 Ω/M	Black PVC		26.00	85.31	78	50	1	0.17
		0.285	7.24		0.405	10.29					10	0.57
C1180 RG 8/U Type 	9 1/2 Ga. Solid Bare Copper 0.90 Ω/M	Semi-Solid Polyethylene		100% Flexfoil® Bonded +88% Tinned Copper Braid 1.8 Ω/M	Black PVC		24.60	80.71	84	50	1	0.13
		0.285	7.24		0.405	10.29					10	0.40



# RG 11/U Type

**Product Construction:**

- Conductors:**
- Copper per ASTM B-3
  - Copper clad steel per ASTM B-869
- Insulation/Core:**
- Solid and cellular polyethylene designs
- Shield:**
- Bare copper or aluminum braid
  - Flexfoil® shield

**Jacket:**







- Premium PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- CATV
- Drop Cable
- CCTV
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C1160 RG 11/U Type JAN-C-17A Type 	18 Ga. (7X26) Tinned Copper 6.1 Ω/M	Solid Polyethylene		95% Bare Copper Braid 1.2 Ω/M	Black PVC		20.50	67.26	66	75	1	0.20
		0.285	7.24		0.400	10.16					10	0.70
C5011 RG 11/U Type CCTV NEC CL2, CATV, CM CEC CM 	14 Ga. Solid Bare Copper 2.5 Ω/M	Cellular Polyethylene		100% Flexfoil® +95% Bare Copper Braid 1.2 Ω/M	Black PVC		16.20	53.15	85	75	1	0.13
		0.280	7.11		.395	10.03					10	0.40
C5025 RG 11/U Type 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		97% Bare Copper Braid 1.2 Ω/M	Permaline® Black PE		16.20	53.15	83	75	1	0.30
		0.285	7.24		0.405	10.29					10	0.70
C5034 RG 11/U Type 1354 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +40% Aluminum Braid 5.3 Ω/M	Black PVC		16.20	53.15	85	75	1	0.30
		0.280	7.11		0.395	10.03					10	0.70
C5039 RG 11/U Type NEC CL2, CATV, CM CEC CM 1354 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 4.6 Ω/M	Black PVC		16.20	53.15	85	75	1	0.30
		0.280	7.11		0.395	10.03					10	0.70
C5044 RG 11/U Type Quad-Shield 1354 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		(2) 100% Flexfoil® 1st Bonded (1) 61% (1) 40% Aluminum Braids 3.4 Ω/M	Black PVC		16.20	53.15	85	75	1	0.30
		0.280	7.11		0.405	10.29					10	0.70



# RG 11/U Type

**Product Construction:**

**Conductors:**

- Copper clad steel per ASTM B-869

**Insulation/Core:**

- Cellular polyethylene designs

**Shield:**

- Tinned copper or aluminum braid
- Flexfoil® shield

**Jacket:**





- Premium PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- CATV
- Drop Cable
- Direct Burial
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C5041 RG 11/U Type Messengered, Self-Supporting 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid 5.3 Ω/M	Black PVC		16.20	53.15	85	75	1	0.30
		0.280	7.11		0.395	10.03					10	0.70
					0.624	15.85					50	0.90
											100	1.30
											200	1.90
											500	3.00
											1000	4.40
Figure 8. Contains 0.083" galvanized steel messenger wire.												
C5043 RG 11/U Type MoistureGuard™ Direct Burial, Flooded 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +60% Aluminum Braid w/ water block 5.3 Ω/M	Permaline® Black, Orange PE		16.20	53.15	85	75	1	0.30
		0.280	7.11		0.395	10.03					10	0.70
											50	0.90
											100	1.30
											200	1.90
											500	3.00
											1000	4.40
C5029 RG 11/U Type NEC CL2, CM CEC CM 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +61% Tinned Copper Braid 3.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.30
		0.280	7.11		0.395	10.03					10	0.70
											50	0.90
											100	1.30
											200	1.90
											500	3.00
											1000	4.40
C5027 RG 11/U Triaxial Type 	14 Ga. Solid Copper Clad Steel 11.4 Ω/M	Cellular Polyethylene		(2) Bare Copper 97% braids w/ Black PE Wall Separator 1.6 Ω/M	Permaline® Black PE		16.20	53.15	83	75	1	0.20
		0.285	7.24		0.475	12.07					50	1.00
											100	1.50
											200	2.20
											500	3.70
											1000	5.30



# RG 58/U Type

**Product Construction:**

- Conductors:**
- Copper per ASTM B-3
  - Tinned copper per ASTM B-33
- Insulation/Core:**
- Solid and cellular polyethylene designs
  - Cellular FEP design
- Shield:**
- Tinned copper braid

**Jacket:**








- Premium PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- Broadcast
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C1117 RG 58/U Type 	20 Ga. Solid Bare Copper 10.1 Ω/M	Solid Polyethylene		70% Tinned Copper Braid 6.0 Ω/M	Black PVC		28.50	93.51	66	53	1	0.40
		0.116	2.95		0.195	4.95					10	1.20
C1155 RG 58C/U Type MIL-C-17G Type 	20 Ga. (19X.0071) Tinned Copper 10.8 Ω/M	Solid Polyethylene		95% Tinned Copper Braid 4.3 Ω/M	Non-contaminating Black PVC		30.80	101.05	66	50	1	0.42
		0.116	2.95		0.195	4.95					10	1.50
C1166 RG 58/U Type JAN-C-17A Type 1354 	20 Ga. Solid Bare Copper 10.1 Ω/M	Solid Polyethylene		95% Tinned Copper Braid 4.3 Ω/M	Black PVC		30.00	98.43	66	50	1	0.40
		0.116	2.95		0.195	4.95					10	1.20
C1178 RG 58A/U Type JAN-C-17A Type 1354 	20 Ga. (19X.0071) Tinned Copper 10.8 Ω/M	Solid Polyethylene		95% Tinned Copper Braid 4.3 Ω/M	Black PVC		31.80	104.34	66	50	1	0.42
		0.116	2.95		0.195	4.95					10	1.50
C5045 RG 58/U Type 	20 Ga. Solid Bare Copper 10.1 Ω/M	Solid Polyethylene		95% Tinned Copper Braid 4.3 Ω/M	Permaline® Black PE		24.00	78.74	78	50	1	0.40
		0.102	2.59		0.195	4.95					10	1.20
C1188 RG 58 A/U Type NEC CL2, CM CEC CM 1354 	20 Ga. (19X32) Tinned Copper 9.5 Ω/M	Cellular Polyethylene		95% Tinned Copper Braid 4.3 Ω/M	Black PVC		26.00	85.31	78	50	1	0.45
		0.114	2.90		0.195	4.95					10	1.42
C3519 RG 58/U Type Plenum NEC CL2P, CMP CEC CMP 	19 Ga. Solid Bare Copper 8.1 Ω/M	Cellular FEP		95% Tinned Copper Braid 2.9 Ω/M	Flexguard® PVC Natural		25.00	82.00	82	50	1	0.40
		0.102	2.59		0.161	4.09					10	1.30



# RG 59/U Type

**Product Construction:**

**Conductors:**

- Copper per ASTM B-3
- Copper clad steel per ASTM B-869

**Insulation/Core:**

- Solid and cellular polyethylene designs

**Shield:**

- Bare copper braid

**Jacket:**







- Premium PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- CATV
- MATV
- CCTV
- Local Area Network
- Citizen band radio
- Monitor/VDT Display
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C1102 RG 59/U Type 	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		95% Bare Copper Braid 3.5 Ω/M	Permaline® Black PE		17.30	56.76	82	75	1	0.26
		0.146	3.71		0.242	6.15					10	0.82
C1104 RG 59/U Type 1354 	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Solid Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Black PVC		20.50	67.26	66	73	1	0.41
		0.146	3.71		0.242	6.15					10	0.99
C1135 RG 59/U Type NEC CL2, CATV, CM CEC CM 1354 	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Cellular Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Black PVC		16.30	53.48	78	80	1	0.42
		0.146	3.71		0.242	6.15					10	0.92
C1103 RG 59/U Type CCTV NEC CL2, CATV, CM CEC CM 1354 	22 Ga. (7X30) Bare Copper 14.8 Ω/M	Cellular Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Black PVC		17.00	55.78	78	76	1	0.26
		0.146	3.71		0.242	6.15					10	0.91
C1142 RG 59/U Type CCTV NEC CL2, CATV, CM CEC CM, AWM 1354 	20 Ga. Solid Bare Copper 10.1 Ω/M	Cellular Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Black PVC		16.20	53.15	78	71	1	0.25
		0.146	3.71		0.234	5.94					10	0.78
C1106 RG 59B/U Type MIL-C-17D Type 1354 	23 Ga. Solid Copper Clad Steel 68.5 Ω/M	Solid Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Non-Contaminating Black PVC		21.00	68.90	66	73	1	0.44
		0.146	3.71		0.242	6.15					10	1.02



# RG 59/U Type

**Product Construction:**

- Conductors:**
- Copper per ASTM B-3
  - Copper clad steel per ASTM B-869
- Insulation/Core:**
- Solid and cellular polyethylene designs
- Shield:**
- Tinned, bare copper or aluminum braid
  - Flexfoil® shield

**Jacket:**







- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- Local Area Network
- Citizen band radio
- Monitor/VDT Display
- Analog Video
- Digital Video
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C1110 RG 59/U Type  1354	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Solid Polyethylene		70% Bare Copper Braid 4.5 Ω/M	Black PVC		22.00	72.18	66	73	1	0.41
		0.146	3.71		0.242	6.15					10	0.99
C1112 RG 59/U Type  	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Cellular Polyethylene		70% Bare Copper Braid 4.5 Ω/M	Black PVC		16.30	53.48	78	80	1	0.42
		0.146	3.71		0.242	6.15					10	0.92
C8005 RG 59/U Dual-Type NEC CL2, CM CEC CM  20063	23 Ga. Solid Copper Clad Steel 68.5 Ω/M	Solid Polyethylene		100% Flexfoil® +95% Tinned Copper Braid 2.9 Ω/M	Black PVC		21.00	68.90	66	73	1	0.44
		0.146	3.71		0.242	6.15					10	1.02
C5834 RG 59/U Dual-Type NEC CL2, CATV, CM CEC CM  20999	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +67% Aluminum Braid 9.7 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.146	3.71		0.242	6.15					10	1.20
C5816 RG 59/U Type Analog Video Digital Video  	20 Ga. Solid Bare Copper 11.1 Ω/M	Solid Polyethylene		97% Tinned Copper Double Braid 1.2 Ω/M	Black PVC		21.00	68.90	66	75	1	0.25
		0.198	5.03		0.305	7.75					10	0.78
C5836 RG 59/U Type Analog Video NEC CL2X, CMX CEC CMH  1354	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Solid Polyethylene		85% Bare Copper Braid 2.7 Ω/M	Black PVC		21.00	68.90	66	73	1	0.41
		0.146	3.71		.242	6.15					10	0.99



# RG 59/U Type

**Product Construction:**

**Conductors:**

- Copper clad steel per ASTM B-869

**Insulation/Core:**

- Cellular polyethylene designs

**Shield:**

- Aluminum braid
- Flexfoil® shield

**Jacket:**







- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- CATV
- MATV
- Drop Cable
- Local Area Network
- Citizen band radio
- Monitor/VDT Display
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHZ	dB/100'
C5770 RG 59/U Type NEC CL2, CATV, CM CEC CM  1354	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +40% Aluminum Braid 11.0 Ω/M	Black PVC		16.00	52.50	78	80	1	0.50
		0.144	3.66		0.231	5.87					10	1.00
C5780 RG 59/U Type MATV NEC CL2, CATV, CM CEC CM 	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +40% Aluminum Braid 11.0 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.144	3.66		0.234	5.94					10	1.20
C5782 RG 59/U Type NEC CL2, CATV, CM CEC CM  1354	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +67% Aluminum Braid 9.7 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.144	3.66		0.234	5.94					10	1.20
C5832 RG 59/U Type NEC CL2, CATV, CM CEC CM 	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +95% Aluminum Braid 4.1 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.144	3.66		0.237	6.02					10	1.20
C5830 RG 59/U Type Tri-Shield NEC CL2, CATV, CM CEC CM 	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +95% Aluminum Braid +100% Flexfoil® 3.6 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.144	3.66		0.242	6.15					10	1.20
C5784 RG 59/U Type Quad-Shield NEC CL2, CATV, CM CEC CM  1354	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		(2) 100% Flexfoil® 1st Bonded (1) 67% (1) 46% Aluminum Braids 4.1 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.144	3.66		0.270	6.86					10	1.20



# RG 59/U Type

**Product Construction:**

- Conductors:**
- Copper clad steel per ASTM B-869
- Insulation/Core:**
- Solid and cellular polyethylene designs
  - Cellular FEP design
- Shield:**
- Bare copper or aluminum braid
  - Flexfoil® shield

**Jacket:**





- Premium PVC compound or PE compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- Local Area Network
- Citizen band radio
- Monitor/VDT Display
- Direct Burial
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHz	dB/100'
C5842 RG 59/U Type Messengered, Self-Supporting 	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +67% Aluminum Braid 9.7 Ω/M	Black PVC		16.20	53.15	85	75	1	0.60
		0.146	3.71		0.242	6.15					10	1.20
					X	X					50	1.95
					0.395	10.03					100	2.70
											200	3.70
											500	5.70
											1000	8.12
Figure 8. Contains 0.051" galvanized steel messenger wire.												
C5844 RG 59/U Type™ MoistureGuard™ Direct Burial, Flooded  FlexFill®	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +67% Aluminum Braid w/ water block 9.7 Ω/M	Black, Orange Permaline® PE		16.20	53.15	85	75	1	0.60
		0.146	3.71		0.242	6.15					10	1.20
											50	1.95
											100	2.70
											200	3.70
											500	5.70
											1000	8.12
C1158 RG 59/U Type Miniature Type  1354	27 Ga. (7X35) Copper Clad Steel 120.0 Ω/M	Solid Polyethylene		93% Tinned Copper Braid 6.5 Ω/M	Black PVC		20.50	67.26	66	75	1	1.20
		0.100	2.54		0.150	3.81					10	2.40
											50	4.20
											100	5.70
											200	8.30
											500	13.53
											1000	20.00
C3500 RG 59/U Type Plenum NEC CL2P, CMP CEC CMP 	20 Ga. Solid Copper Clad Steel 45.9 Ω/M	Cellular FEP		95% Bare Copper Braid 1.9 Ω/M	Flexguard® PVC Natural		16.50	54.14	82	75	1	0.78
		0.145	3.68		0.201	5.11					10	1.90
											50	1.98
											100	2.80
											200	4.10
											500	6.82
											1000	9.64



# RG 62/U Type

**Product Construction:**

**Conductors:**

- Copper clad steel per ASTM B-869

**Insulation/Core:**

- Semi-solid or cellular polyethylene designs
- Cellular FEP design

**Shield:**

- Bare copper braid

**Jacket:**




- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- Computer
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHZ	dB/100'
C1162 RG 62A/U Type MIL-C-17G Type  1354	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Semi-Solid Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Non-contaminating Black PVC		13.60	44.62	84	93	1	0.38
		0.146	3.71		0.242	6.15					10	0.85
C1164 RG 62/U Type Computer Cable JAN-C-17A Type NEC CL2, CM CEC CM  1354	22 Ga. Solid Copper Clad Steel 73.4 Ω/M	Semi-Solid Polyethylene		95% Bare Copper Braid 2.6 Ω/M	Black PVC		13.60	44.62	84	93	1	0.38
		0.146	3.66		0.242	6.15					10	0.85
C3520 RG 62/U Type Plenum NEC CL2P, CMP CEC CMP 	22 Ga. Solid Copper Clad Steel 54.7 Ω/M	Cellular FEP		95% Bare Copper Braid 1.9 Ω/M	Flexguard® PVC Natural		13.00	42.65	84	93	1	0.30
		0.145	3.56		0.201	5.11					50	1.90
											100	2.70
											200	3.80
											500	5.90
											1000	8.34



# RG 174/U Type

**Product Construction:**

- Conductors:**
- Copper per ASTM B-3
  - Copper clad steel per ASTM B-869
- Insulation/Core:**
- Solid polyethylene designs
- Shield:**
- Tinned or bare copper braid

**Jacket:**


- Premium PVC compound

**Packaging:**


- 1000' (305 m) Reels
- Other put-ups available – consult Customer Service

**Applications:**

- Suitable for RF signal transmission
- MATV
- CATV
- Closed circuit TV
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION				
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHZ	dB/100'			
C1156 RG 174/U Type  1354	26 Ga. (7x34) Copper Clad Steel 97.0 Ω/M	Solid Polyethylene		95% Tinned Copper Braid 10.3 Ω/M	Black PVC		30.80	101.05	66	50	1	1.90			
		0.060	1.52		0.103	2.62					10	3.30	50	5.80	100

# RG 213/U Type

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION				
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHZ	dB/100'			
C1176 RG 213/U Type MIL-C-17G Type  1354	13 Ga. (7x21) Bare Copper 1.7 Ω/M	Solid Polyethylene		95% Bare Copper Braid 1.2 Ω/M	Non-contaminating Black PVC		30.80	101.05	66	50	1	0.18			
		0.285	7.24		0.405	10.29					10	0.62	50	1.50	100



# Other Coaxial Cables

**Product Construction:**

**Conductors:**

- Copper per ASTM B-3
- Tinned copper per ASTM B-33

**Insulation/Core:**

- Solid and cellular polyethylene designs
- Cellular FEP Design

**Shield:**

- Tinned copper braid
- Flexfoil® shield

**Jacket:**




- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Precision video
- Thinnest
- See Coaxial Cable Product Finder, page 175-176

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHZ	dB/100'
<b>C5838</b> RG 59/U Type Indoor Use Precision Video 	20 Ga. Solid Bare Copper 9.9 Ω/M	Solid Polyethylene		98% Tinned Copper Double Braid 1.1 Ω/M	Clear PVC		20.00	65.62	66	77	1	0.25
		0.200	5.08		0.305	7.75					10	0.78
<b>C5779</b> RG 58/U Type Thinnest NEC CL2, CM CEC CM 	20 Ga. Stranded (19X32) Tinned Copper 9.5 Ω/M	Cellular Polyethylene		100% Flexfoil® Bonded +81% Tinned Copper Braid 9.5 Ω/M	Gray PVC		25.40	83.34	80	50	1	0.40
		0.100	2.54		0.186	4.72					10	1.20
<b>C3579</b> RG 58/U Type Thinnest Plenum NEC CL2P, CMP CEC CMP 	20 Ga. (19X32) Tinned Copper 9.5 Ω/M	Cellular FEP		100% Flexfoil® +95% Tinned Copper Braid 3.1 Ω/M	Flexguard® PVC Natural		26.00	85.31	78	50	1	0.60
		0.100	2.54		0.165	4.19					10	1.30
											50	2.90
											100	4.20
											200	6.10
											500	10.00
											1000	14.80





# Twinaxial Cables

**Product Construction:**

- Conductors:**
- Copper per ASTM B-3
  - Tinned copper per ASTM B-33
- Insulation/Core:**
- Solid and foamed polyethylene designs
  - Lo-Cap® polypropylene designs
- Shield:**
- Tinned copper braid
  - Flexfoil® shield

**Jacket:**







- Premium PVC compound

**Packaging:**

- 1000' (305 m) Reels
- 1000' (305 m) Pull-Pac® Cartons
- Other put-ups available – consult Customer Service

**Applications:**

- Programmable Logic Controllers (PLC)
- Data Transmission
- Broadcast
- Computer

CATALOG NUMBER	AWG SIZE NOM. DCR	INSULATION MATERIAL		SHIELD COVERAGE NOM SHLD DCR	NOMINAL O.D.		NOMINAL CAPACITANCE		VELOCITY OF PROPAGATION, %	NOMINAL IMPEDANCE,	NOMINAL ATTENUATION	
		INCHES	mm		INCHES	mm	pF/ft	pF/m			MHZ	dB/100'
C8000 NEC CL2 2498 80°C, 300V 	20 Ga. (7X28) (1) Tinned Copper, (1) Bare Copper 9.5 Ω/M	Solid Polyethylene Coded: Natural, Natural		100% Flexfoil® +90% Tinned Copper Braid 2.5 Ω/M	Black PVC		15.50	50.86	66	100	1	0.40
		0.022	0.56		0.330	8.38					10	1.10
C8001 NEC CL2, CM CEC CM 2464 2582 60°C, 300V 	20 Ga. (7X28) Tinned Copper 9.5 Ω/M	Solid Polyethylene Coded: Natural, Blue		100% Flexfoil® +57% Tinned Copper Braid 4.1 Ω/M	Blue PVC		19.17	62.90	66	78	1	0.60
		0.020	0.51		0.242	6.15					10	2.10
C8012 2092 80°C, 300V 	25 Ga. (7X33) Tinned Copper 31.8 Ω/M	Solid Polyethylene Coded: Natural, Blue		100% Flexfoil® +25 AWG Tinned Copper Drain Wire 12.0 Ω/M	Blue PVC		12.20	40.03	66	124	1	0.60
		0.030	0.76		0.240	6.10					10	1.70
C8013 2448 60°C, 30V 	16 Ga. Solid Bare Copper 4.2 Ω/M	Cellular Polyethylene Coded: Natural, Blue		100% Flexfoil® +92% Tinned Copper Braid 6.3 Ω/M	Black PVC		10.90	35.76	78	120	1	0.18
		0.052	1.32		0.440	11.18					10	0.71
C8014 2668 60°C, 30V 	22 Ga. (19X34) Tinned Copper 15.0 Ω/M	Lo-Cap® Polypropylene Coded: Black, Yellow		100% Flexfoil® +22 AWG Tinned Copper Drain Wire 6.3 Ω/M	Black PVC		8.80	28.87	78	150	1	0.40
		0.051	1.30		0.360	9.14					10	1.20
C8033 2092 60°C, 300V 	22 Ga. (7X30) (1) Tinned Copper, (1) Bare Copper 16.0 Ω/M	Solid Polyethylene Coded: White, Blue		85% Tinned Copper Braid 4.7 Ω/M	Beige PVC		20.70	67.92	66	78	1	0.80
		0.015	0.38		0.180	4.57					10	2.50

