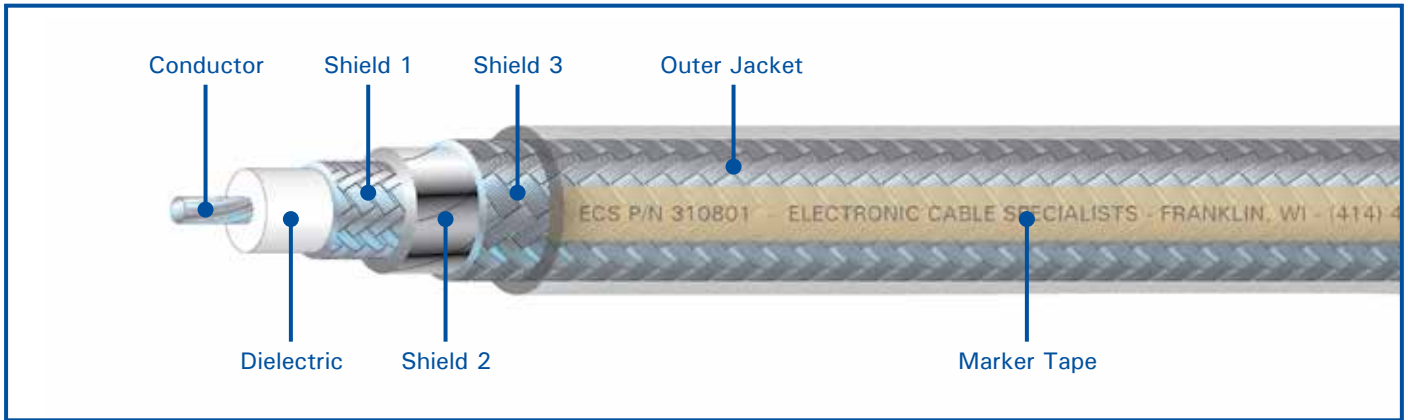


50 Ohm Coaxial Cable

P/N 310801



CONSTRUCTION DETAILS

- Conductor:** 8 AWG stranded silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Flat silver-plated copper braid
- Shield 2:** Aluminum foil
- Shield 3:** 36 AWG silver-plated copper braid
- Jacket:** Clear high temperature fluoropolymer

ENVIRONMENTAL DETAILS

- » ECS avionics cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- » They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.452 in. nominal
- Bend Radius:** 2.26 in. nominal
- Weight:** 19 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

ELECTRICAL CHARACTERISTICS

- Impedance:** 50.0 Ohms nominal
- Capacitance:** 25.5 pF/ft. nominal
- DC Resistance:** 0.67 Ohms/1000 ft. nominal
- Time Delay:** 1.25 ns/ft. nominal
- Velocity of Propagation:** 81% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:** 1.3 dB/100 ft. @ 150 MHz (nominal)
- 3.6 dB/100 ft. @ 1000 MHz
- 4.6 dB/100 ft. @ 1600 MHz
- 6.5 dB/100 ft. @ 2400 MHz
- 8.5 dB/100 ft. @ 5000 MHz

CONNECTOR TYPES FOR CABLE 310801

Connector Type	Connector P/N
TNC 90°	CTR022
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Straight	CTS022
TNC Panel Mount	N/A
TNC Bulkhead	BTS022
C 90°	CCR022
C Straight	CCS022

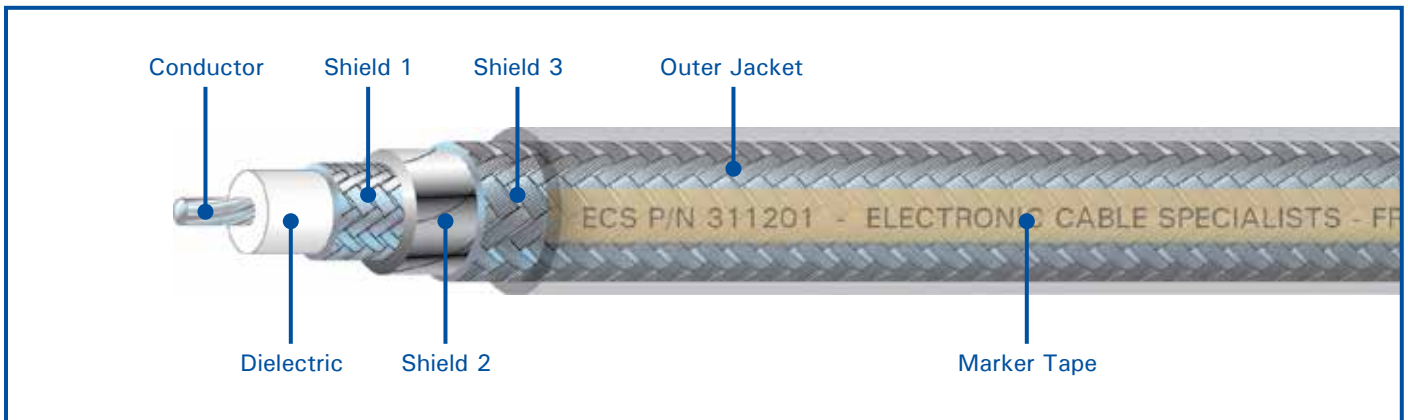
Connector Type	Connector P/N
BNC 90°	CBR022
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Straight	CBS022
BNC Bulkhead	N/A
N 90°	CNR022
N Straight	CNS022
N Bulkhead	BNS022

Connector Type	Connector P/N
ARINC 404 Size 1	LM022
ARINC 600 Size 1	LO122
ARINC 600 Size 1RF	MO122
ARINC 600 Size 5	N/A
SMA 90°	N/A
SMA Straight	N/A
HN 90°	CHR022
ARINC 600 Size 8	N/A



50 Ohm Coaxial Cable

P/N 311201



CONSTRUCTION DETAILS

- Conductor:** 12 AWG stranded silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Flat silver-plated copper braid
- Shield 2:** Aluminum foil
- Shield 3:** 36 AWG silver-plated copper braid
- Jacket:** Clear high temperature fluoropolymer

ENVIRONMENTAL DETAILS

- » ECS avionics cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- » They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.317 in. nominal
- Bend Radius:** 1.59 in. nominal
- Weight:** 8.6 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

ELECTRICAL CHARACTERISTICS

- Impedance:** 50.0 Ohms nominal
- Capacitance:** 25.5 pF/ft. nominal
- DC Resistance:** 1.69 Ohms/1000 ft. nominal
- Time Delay:** 1.27 ns/ft. nominal
- Velocity of Propagation:** 80% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:** 2.1 dB/100 ft. @ 150 MHz (nominal)
- 5.6 dB/100 ft. @ 1000 MHz
- 6.7 dB/100 ft. @ 1600 MHz
- 8.9 dB/100 ft. @ 2400 MHz
- 12.7 dB/100 ft. @ 5000 MHz

CONNECTOR TYPES FOR CABLE 311201

Connector Type	Connector P/N
TNC 90°	CTR122
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Straight	CTS122
TNC Panel Mount	N/A
TNC Bulkhead	BTS122
C 90°	CCR122
C Straight	CCS122

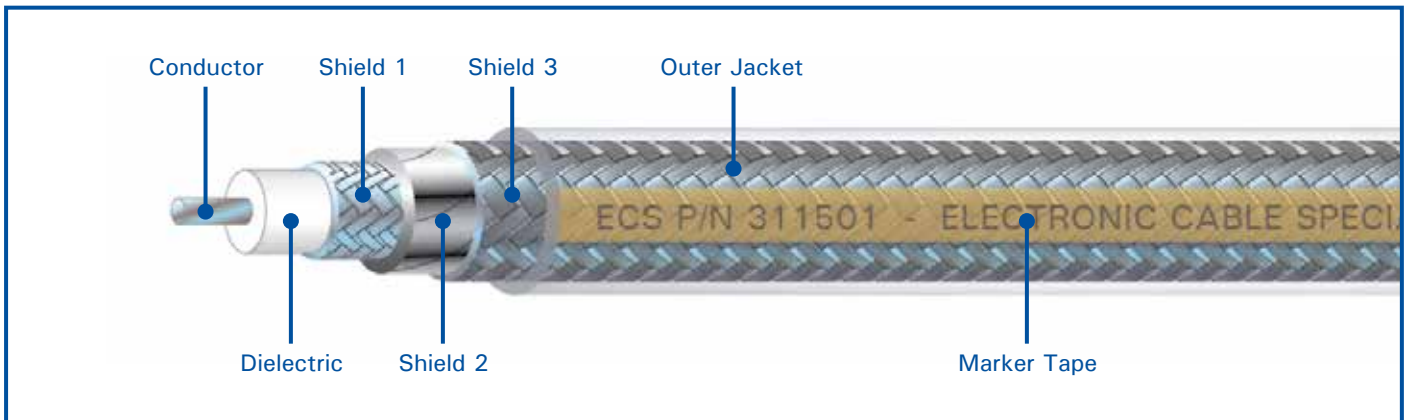
Connector Type	Connector P/N
BNC 90°	CBR122
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Straight	CBS122
BNC Bulkhead	N/A
N 90°	CNR122
N Straight	CNS122
N Bulkhead	BNS122

Connector Type	Connector P/N
ARINC 404 Size 1	LM122
ARINC 600 Size 1	L1122
ARINC 600 Size 1RF	M1122
ARINC 600 Size 5	N/A
SMA 90°	CSR122
SMA Straight	CSS122
HN 90°	CHR122
ARINC 600 Size 8	N/A



50 Ohm Coaxial Cable

P/N 311501



CONSTRUCTION DETAILS

- Conductor:** 15 AWG solid silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Flat silver-plated copper braid
- Shield 2:** Aluminum foil
- Shield 3:** 38 AWG silver-plated copper braid
- Jacket:** Clear high temperature fluoropolymer

ENVIRONMENTAL DETAILS

- » ECS avionics cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- » They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.229 in. nominal
- Bend Radius:** 1.2 in. nominal
- Weight:** 5.1 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

ELECTRICAL CHARACTERISTICS

- Impedance:** 50.0 Ohms nominal
- Capacitance:** 25.5 pF/ft. nominal
- DC Resistance:** 2.98 Ohms/1000 ft. nominal
- Time Delay:** 1.27 ns/ft. nominal
- Velocity of Propagation:** 80% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:** 2.7 dB/100 ft. @ 150 MHz
(nominal) 7.1 dB/100 ft. @ 1000 MHz
9.1 dB/100 ft. @ 1600 MHz
10.7 dB/100 ft. @ 2400 MHz
16.1 dB/100 ft. @ 5000 MHz

CONNECTOR TYPES FOR CABLE 311501

Connector Type	Connector P/N
TNC 90°	CTR922
TNC 90° Extended	CTRE922
TNC 90° Long	CTRL922
TNC Straight	CTS922
TNC Panel Mount	RTS922
TNC Bulkhead	BTS922
C 90°	CCR922
C Straight	CCS922

Connector Type	Connector P/N
BNC 90°	CBR922
BNC 90° Extended	CBRE922
BNC 90° Long	CBRL922
BNC Straight	CBS922
BNC Bulkhead	N/A
N 90°	CNR922
N Straight	CNS922
N Bulkhead	BNS922

Connector Type	Connector P/N
ARINC 404 Size 1	LM922
ARINC 600 Size 1	L9122
ARINC 600 Size 1RF	M9122
ARINC 600 Size 5	P922
SMA 90°	CSR922
SMA Straight	CSS922
HN 90°	CHR922
ARINC 600 Size 8	CAS982

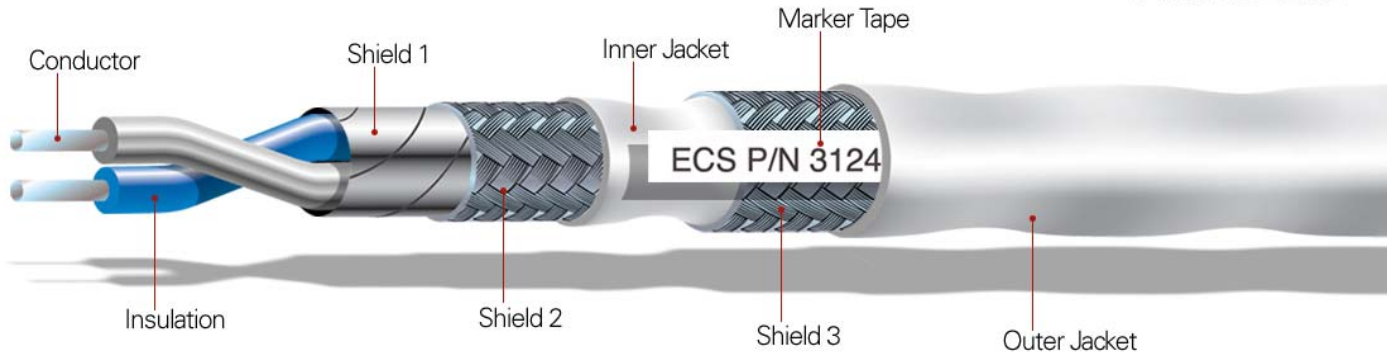




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ARINC 453 Data Bus Cable

P/N 312402



2 Conductors: 22 AWG stranded tin plated copper
Insulation: High temperature fluoropolymer
Color Code: White, Blue
Shield 1: Aluminum/Polyester foil
Shield 2: 36 AWG tin plated copper braid
Inner Jacket: White high temperature fluoropolymer
Shield 3: 36 AWG tin plated copper braid
Outer Jacket: White high temperature fluoropolymer
(laser markable)

Physical Characteristics

Outer Diameter: 0.274 inches nominal
Bend Radius: 1.40 inches nominal
Weight: 2.50 lbs/100 feet nominal
Temperature Range: -55° to +150° C
Skydrol Resistant: Yes

Electrical Characteristics

Impedance: 78 Ohms nominal
Capacitance: 19.2 pF/ft maximum
Attenuation: 1 MHz 1.0 dB/100 ft nominal

Applications

ARINC 453, ARINC 708 Weather Radar, General Purpose

Environmental:

- ECS data bus cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

Cage Code: 66197 • **Issue Date:** 9/2109

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RG58 Coaxial Cable

multicomp PRO

Construction



Item	Material	Diameter	
		(Inch)	(mm)
Inner Conductor	Stranded; Tinned Copper	19/0.0071 ±0.002	19/0.18 ±0.05
Dielectric	Solid PE	0.116 ±0.004	2.95 ±0.1
Shield	95% Tinned Copper Braid	0.14 ±0.004	3.55 ±0.1
Jacket	PVC	0.195 ±0.004	4.95 ±0.1

Electrical Characteristics

Impedance	: 50Ω ±2Ω
Capacitance	: 101pF/m
Velocity of Propagation	: 66%
Max. Operating Frequency	: 1GHz
Max. Operating Voltage	: 1900VRMS
Corona Extinction Voltage	: 1900VRMS
Voltage Withstand	: 5000VRMS
Spark Test	: 5000VRMS
Operating Temp. Range	: -40°C to +85°C

Attenuation (@20°C)

Frequency (MHz)	Max. Attenuation (dB/100ft)	Max. Attenuation (dB/100m)
10	1.5	4.9
50	3.3	10.9
100	4.7	15.5
200	7.5	24.5
400	10.6	34.8
600	12.1	39.6
860	17.2	56.4
1000	18.4	60.5

Part Number Table

Description	Length	Part Number
Coaxial Cable, RG58 C/U, PVC, Black	Per Meter or 100 Meter	RG58C/U

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