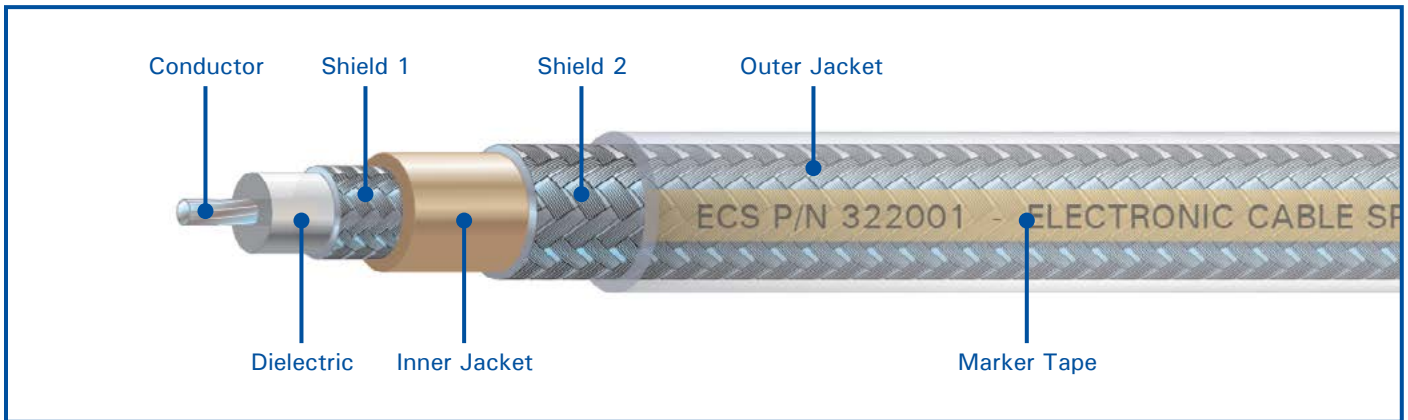


# 50 Ohm Triaxial Cable

## P/N 322001



### CONSTRUCTION DETAILS

- Conductor:** 20 AWG stranded silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** 36 AWG silver-plated copper braid
- Inner Jacket:** Tan high temperature fluoropolymer
- Shield 2:** 36 AWG silver-plated copper braid
- Outer Jacket:** Clear high temperature fluoropolymer

### PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.236 in. nominal
- Bend Radius:** 1.2 in. nominal
- Weight:** 5.7 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

### 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.

### ELECTRICAL CHARACTERISTICS

- Impedance:** 50.0 Ohms nominal
- Capacitance:** 29.5 pF/ft. nominal
- DC Resistance:** 8.7 Ohms/1000 ft. nominal
- Time Delay:** 1.46 ns/ft. nominal
- Velocity of Propagation:** 69.5% nominal
- Shield Effectiveness:** > 80 dB
- Attenuation:** 5.1 dB/100 ft. @ 150 MHz (nominal)
- 14.4 dB/100 ft. @ 1000 MHz
- 18.7 dB/100 ft. @ 1600 MHz
- 23.4 dB/100 ft. @ 2400 MHz
- 36.1 dB/100 ft. @ 5000 MHz

### CONNECTOR TYPES FOR CABLE 322001

Connector Type	Connector P/N
Triaxial Panel Mount	34-30-2
TRB 2 Stud Bulkhead	BJ79TL-7
TRB 2 Lug 90°	GBR3021
TRB 2 Lug Straight	GBS3021
TRB 3 Lug Straight	GYS3021

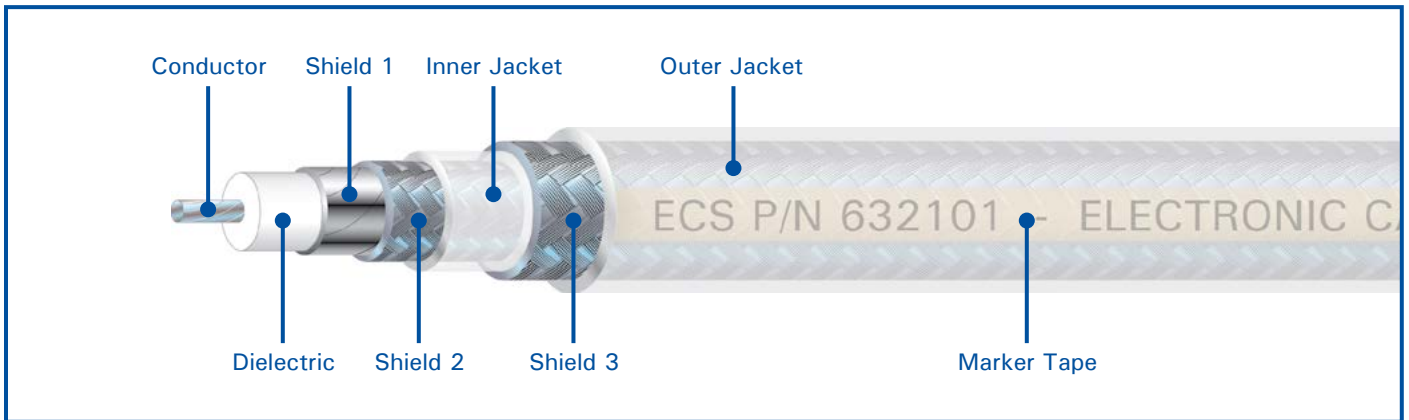
Connector Type	Connector P/N
TRB 3 Stud	3/9/95
	EBS3021
	PL75-7
	PL75C-306

Connector Type	Connector P/N
TRB 3 Lug Bulkhead	BJ79-7
	BJ9C-306
	BYS3021



# 50 Ohm Triaxial Cable

## P/N 632101



### CONSTRUCTION DETAILS

- Conductor:** 20 AWG stranded silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Aluminum tape
- Shield 2:** Tin-plated copper braid
- Inner Jacket:** White high temperature fluoropolymer
- Shield 2:** Tin-plated copper braid
- Outer Jacket:** White high temperature fluoropolymer (Laser Markable)

### 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:** 0.171 in. nominal
- Bend Radius:** 0.855 in. nominal
- Weight:** 2.9 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

### ELECTRICAL CHARACTERISTICS

- Impedance:** 50.0 Ohms nominal
- Capacitance:** 26.0 pF/ft. nominal
- DC Resistance:** 9.6 Ohms/1000 ft. nominal
- Time Delay:** 1.34 ns/ft. nominal
- Velocity of Propagation:** 76% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:** 5.3 dB/100 ft. @ 150 MHz (nominal)
- 14.3 dB/100 ft. @ 1000 MHz
- 17.8 dB/100 ft. @ 1600 MHz
- 21.4 dB/100 ft. @ 2400 MHz
- 33.4 dB/100 ft. @ 5000 MHz

### CONNECTOR TYPES FOR CABLE 632101

Connector Type	Connector P/N
BNC Straight	N/A
BNC 90°	N/A
BNC Bulkhead	N/A
TNC Straight	N/A
SMA 90°	N/A

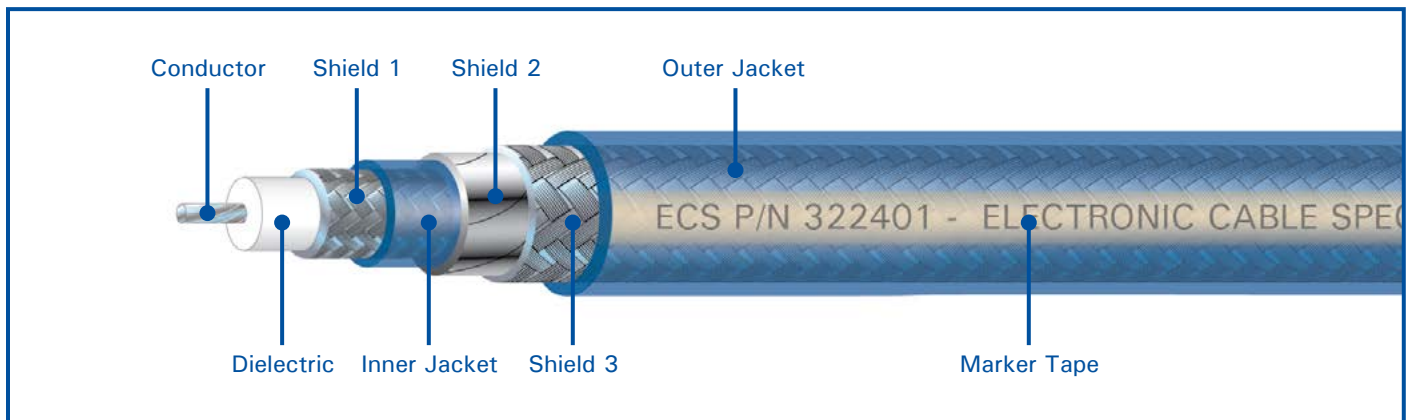
Connector Type	Connector P/N
F Straight	N/A
F 90°	N/A
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A

Connector Type	Connector P/N
ARINC 404 Size 9	N/A
D-SUB #8 Socket	N/A
D-SUB #8 Pin	N/A
TRB Triax Plug	PL75-60



# 75 Ohm Triaxial Cable

## P/N 322401



### CONSTRUCTION DETAILS

- Conductor:** 24 AWG stranded tin-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** 36 AWG tin-plated copper braid
- Inner Jacket:** Blue high temperature fluoropolymer
- Shield 2:** Aluminum/Polyester foil
- Shield 3:** 36 AWG tin-plated copper braid
- Outer Jacket:** Blue 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:** 0.246 in. nominal
- Bend Radius:** 1.0 in. nominal
- Weight:** 5.8 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

### ELECTRICAL CHARACTERISTICS

- Impedance:** 75.0 Ohms nominal
- Capacitance:** 20.4 pF/ft. nominal
- Time Delay:** 1.46 ns/ft. nominal
- Velocity of Propagation:** 69.5% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:**
  - 0.72 dB/100 ft. @ 1 MHz
  - (nominal) 1.14 dB/100 ft. @ 10 MHz
  - 3.15 dB/100 ft. @ 100 MHz
  - 7.19 dB/100 ft. @ 400 MHz
  - 13.91 dB/100 ft. @ 1000 MHz

# 75 Ohm Triaxial Cable

## P/N 612301



### CONSTRUCTION DETAILS

- Conductor:** 23 AWG stranded tin-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Aluminum tape
- Inner Jacket:** White high temperature fluoropolymer
- Shield 2:** Tin-plated copper braid
- Outer Jacket:** White high temperature fluoropolymer (Laser Markable)

### PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.20 in. nominal
- Bend Radius:** 1.0 in. nominal
- Weight:** 3.7 lbs/100 ft. nominal
- Temperature Range:** -55° to +150°C
- Skydrol Resistant:** Yes

### 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.

### ELECTRICAL CHARACTERISTICS

- Impedance:** 75.0 Ohms nominal
- Capacitance:** 20.0 pF/ft. nominal
- DC Resistance:** 23.7 Ohms/1000 ft. nominal
- Time Delay:** 1.28 ns/ft. nominal
- Velocity of Propagation:** 82% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:** 1.2 dB/100 ft. @ 10 MHz (nominal)
- 3.0 dB/100 ft. @ 100 MHz
- 8.3 dB/100 ft. @ 400 MHz
- 20.0 dB/100 ft. @ 1450 MHz

### CONNECTOR TYPES FOR CABLE 612301

Connector Type	Connector P/N
BNC Straight	N/A
BNC 90°	N/A
BNC Bulkhead	N/A
TNC Straight	N/A
SMA 90°	N/A

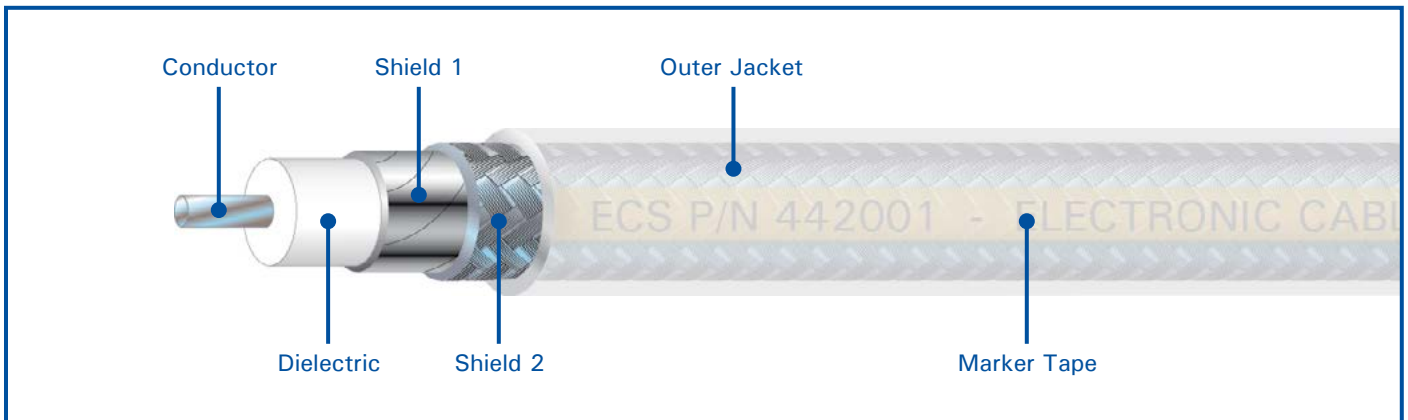
Connector Type	Connector P/N
F Straight	N/A
F 90°	N/A
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A

Connector Type	Connector P/N
ARINC 404 Size 9	N/A
D-SUB #8 Socket	N/A
D-SUB #8 Pin	N/A
TRB Triax Plug	305-1353-1



# 75 Ohm Coaxial Cable

## P/N 442001



### CONSTRUCTION DETAILS

- Conductor:** 20 AWG silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Aluminum/Polyester foil
- Shield 2:** 38 AWG tin-plated copper braid
- Jacket:** White high temperature fluoropolymer (Laser Markable)

### PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.200 in. nominal
- Bend Radius:** 1.0 in. nominal
- Weight:** 2.5 lbs/100 ft. nominal
- Temperature Range:** -55° to +85°C
- Skydrol Resistant:** Yes

### 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.

### ELECTRICAL CHARACTERISTICS

- Impedance:** 75.0 Ohms nominal
- Capacitance:** 18.5 pF/ft. nominal
- DC Resistance:** 37.3 Ohms/1000 ft. nominal
- Time Delay:** 1.40 ns/ft. nominal
- Velocity of Propagation:** 73% nominal
- Shield Effectiveness:** > 80 dB
- Attenuation:** 1.6 dB/100 ft. @ 10 MHz (nominal)
- 2.7 dB/100 ft. @ 100 MHz
- 5.5 dB/100 ft. @ 400 MHz
- 10.4 dB/100 ft. @ 1450 MHz
- 16.5 dB/100 ft. @ 3000 MHz

### CONNECTOR TYPES FOR CABLE 442001

Connector Type	Connector P/N
Mini BNC Straight	CMBS402
Mini BNC 90°	CMBR402
Mini BNC Bulkhead Jack	BMBS402
TNC Straight	N/A
SMA 90°	N/A

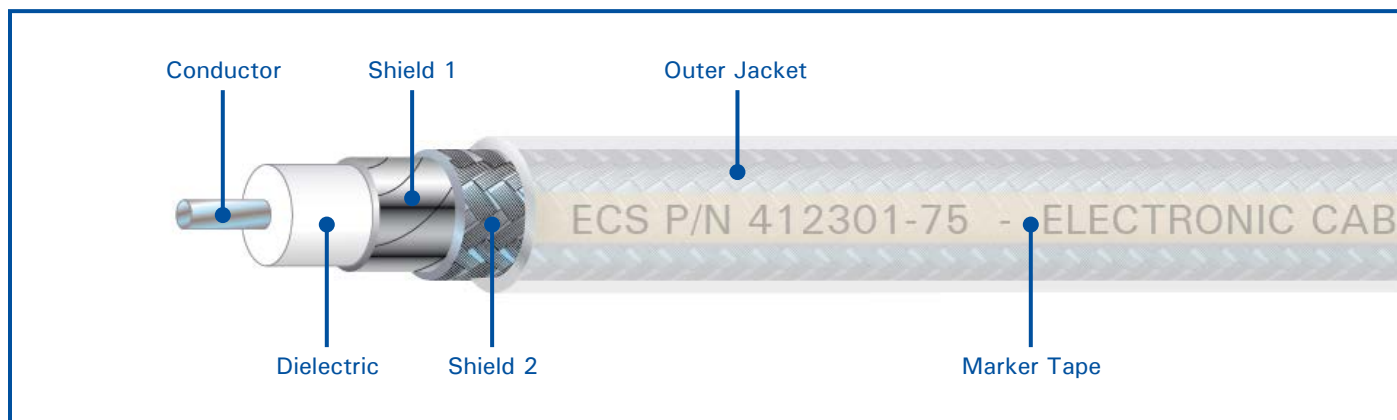
Connector Type	Connector P/N
F Straight	N/A
F 90°	N/A
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A

Connector Type	Connector P/N
ARINC 404 Size 9	N/A
D-SUB #8 Socket	N/A
D-SUB #8 Pin	N/A
TRB Triax Plug	N/A



# 75 Ohm Coaxial Cable

## P/N 412301-75



### CONSTRUCTION DETAILS

- Conductor:** 23 AWG tin-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Aluminum/Polyester foil
- Shield 2:** 36 AWG tin-plated copper braid
- Jacket:** White high temperature fluoropolymer (Laser Markable)

### PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.150 in. nominal
- Bend Radius:** 0.75 in. nominal
- Weight:** 1.8 lbs/100 ft. nominal
- Temperature Range:** -55° to +150°C
- Skydrol Resistant:** Yes

### 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.

### ELECTRICAL CHARACTERISTICS

- Impedance:** 75.0 Ohms nominal
- Capacitance:** 20.0 pF/ft. maximum
- DC Resistance:** 23.7 Ohms/1000 ft. nominal
- Time Delay:** 1.28 ns/ft. nominal
- Velocity of Propagation:** 82% nominal
- Shield Effectiveness:** > 80 dB
- Attenuation:** 1.2 dB/100 ft. @ 10 MHz (nominal)
- 3.0 dB/100 ft. @ 100 MHz
- 8.3 dB/100 ft. @ 400 MHz
- 20.0 dB/100 ft. @ 1450 MHz

### CONNECTOR TYPES FOR CABLE 412301-75

Connector Type	Connector P/N
BNC Straight	UPL220-009
BNC 90°	UPLR220-009
BNC Bulkhead	UBJ220-009
TNC Straight	UPL240-009
SMA 90°	N/A

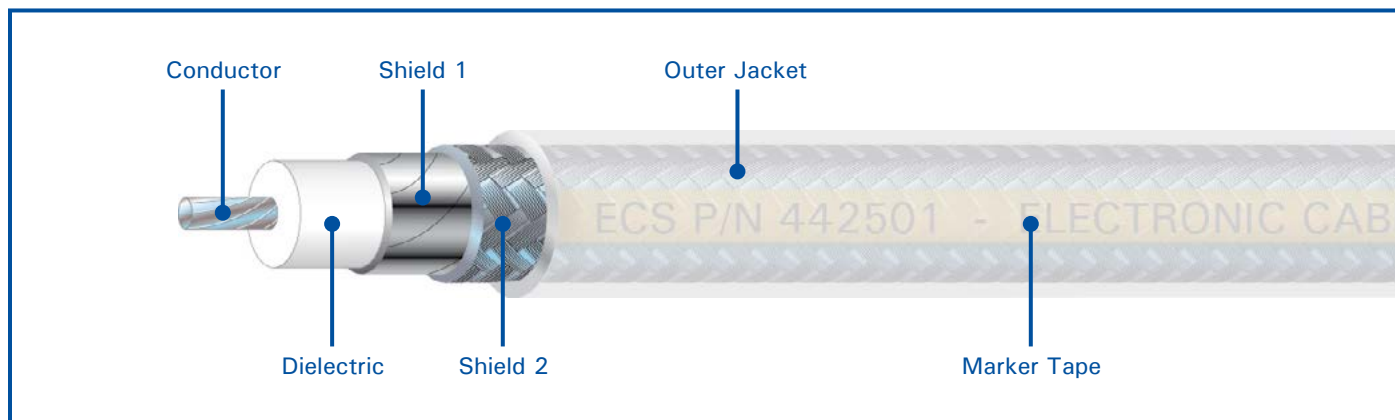
Connector Type	Connector P/N
F Straight	PL130SC-009
F 90°	N/A
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A

Connector Type	Connector P/N
ARINC 404 Size 9	N/A
D-SUB #8 Socket	CDS882
D-SUB #8 Pin	CDP882
TRB Triax Plug	N/A



# 75 Ohm Coaxial Cable

## P/N 442501



### CONSTRUCTION DETAILS

- Conductor:** 26 AWG stranded silver-plated copper
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Aluminum/Polyester foil
- Shield 2:** 38 AWG tin-plated copper braid
- Jacket:** White high temperature fluoropolymer (Laser Markable)

### PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.130 in. nominal
- Bend Radius:** 0.61 in. nominal
- Weight:** 1.25 lbs/100 ft. nominal
- Temperature Range:** -55° to +150°C
- Skydrol Resistant:** Yes

### 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.

### ELECTRICAL CHARACTERISTICS

- Impedance:** 75.0 Ohms nominal
- Capacitance:** 16.0 pF/ft. nominal
- DC Resistance:** 37.3 Ohms/1000 ft. nominal
- Time Delay:** 1.25 ns/ft. nominal
- Velocity of Propagation:** 76% nominal
- Shield Effectiveness:** > 80 dB
- Attenuation:** 1.8 dB/100 ft. @ 10 MHz (nominal)
- 5.2 dB/100 ft. @ 100 MHz
- 17.8 dB/100 ft. @ 950 MHz
- 22.7 dB/100 ft. @ 1450 MHz
- 28.7 dB/100 ft. @ 2150 MHz

### CONNECTOR TYPES FOR CABLE 442501

Connector Type	Connector P/N
BNC Straight	CBS442
BNC 90°	CBR442
BNC Bulkhead	BBS442
TNC Straight	N/A
SMA 90°	N/A

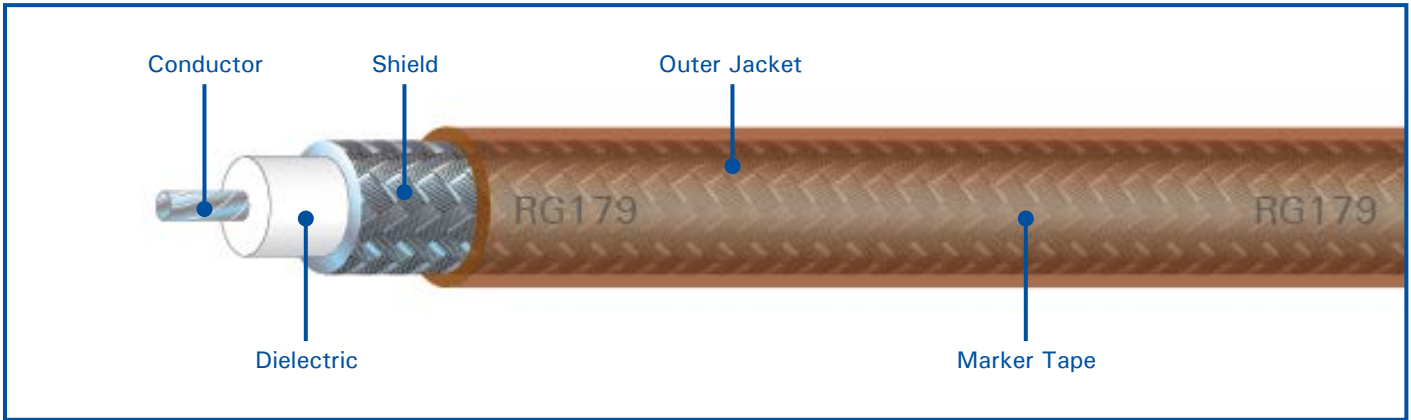
Connector Type	Connector P/N
F Straight	PL130SC-026
F 90°	N/A
ARINC 600 Size 5	CAS452
ARINC 600 Size 8	CAS482

Connector Type	Connector P/N
ARINC 404 Size 9	N/A
D-SUB #8 Socket	N/A
D-SUB #8 Pin	N/A
TRB Triax Plug	N/A



# 75 Ohm Coaxial Cable

P/N 3C179B1



## CONSTRUCTION DETAILS

- Conductor:** 30 AWG stranded silver-plated copper clad steel
- Dielectric:** High temperature fluoropolymer
- Shield 1:** 38 AWG silver-plated copper braid
- Jacket:** Brown 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:** 0.1 in. nominal
- Bend Radius:** 0.5 in. nominal
- Weight:** 1.0 lbs/100 ft. nominal
- Temperature Range:** -55° to +200°C
- Skydrol Resistant:** Yes

## ELECTRICAL CHARACTERISTICS

- Impedance:** 75.0 Ohms nominal
- Capacitance:** 19.5 pF/ft. nominal
- DC Resistance:** 234.0 Ohms/1000 ft. nominal
- Time Delay:** 1.46 ns/ft. nominal
- Velocity of Propagation:** 69.5% nominal
- Shield Effectiveness:** > 50 dB
- Attenuation:** 8.1 dB/100 ft. @ 100 MHz  
(nominal) 16.5 dB/100 ft. @ 400 MHz  
26.5 dB/100 ft. @ 1000 MHz

## CONNECTOR TYPES FOR CABLE 3C179B1

Connector Type	Connector P/N
BNC Straight	413589-8
BNC 90°	4133588-8
BNC Bulkhead	221221-5
TNC Straight	UPL240-004
SMA 90°	CSR179

Connector Type	Connector P/N
F Straight	N/A
F 90°	73356-0230
ARINC 600 Size 5	N/A
ARINC 600 Size 8	N/A

Connector Type	Connector P/N
ARINC 404 Size 9	N/A
D-SUB #8 Socket	N/A
D-SUB #8 Pin	N/A
TRB Triax Plug	N/A

