Cheminax RF Coaxial Cables and RF Connectors

QUICK REFERENCE GUIDE

Convenient

- Lightweight, small diameter
- Extended temperature range

High Performance

- High flexibility
- Low capacitance
- Low attenuation

HIGHER PERFORMANCE
- Low capacitance and attenuation
- Improved velocity of propagation
- Extended temperature range

CONVENIENCE
- Improved flexibility
- Light weight, small size

PRODUCT APPLICATIONS
- Aircraft/Aerospace
- Missiles
- Avionics
- Radio Frequency / Microwave
- Computers, Security and Surveillance
- Communications

Cheminax coaxial cables from TE Connectivity (TE) were designed to solve interconnect problems in electronic systems, such as computers, military equipment, and other areas of high-density packaging, where cables are required to perform to more exacting specifications than standard radio-grade (RG) constructions. Options include coaxial cable constructions that are smaller and lighter, have improved electrical performance, are more flexible, have better fluid resistance, and extended temperature range, over RG constructions. Our RF connectors are specifically designed with matched impedance, and correctly sized to fit the Cheminax coaxial cables referenced in this guide. TE is also able to offer fully tested complete assemblies using the coax cables and RF connectors from this selection guide.

Part Numbering System

50 26 A 1 3 3 1 - 0

IMPEDANCE
XX (Always two digits: use last two digits)

CONDUCTOR SIZE (AWG)
XX (Always two digits: add leading zero if necessary)

VARIATION
A Standard
S Space Rated
U Low Loss
W Waterblocked

CONSTRUCTION
1 Round Braid Shield
2 Flat Braid Shield
3 Round Braids
4 Two Braid Shields
5 Triax, Round Braid Shield
6 Triax (other)
7 Other
8 Composite Shield
9 Core Only
0 Other

JACKET
1 General-Purpose PVDF
2 Outer Space PVDF
3 Thermorad F & S
4 Modified FEP
5 ETFE
6 XL-ETFE
7 Flexible XL-ETFE
8 Zerohal and Thermorad LS
9 None
0 Other
L Low Fluoride XL-ETFE

JACKET COLOR
0 Black
1 Brown
2 Red
3 Orange
4 Yellow
5 Green
6 Blue
7 Violet
8 Gray
9 White
9LM White, Laser Markable
X Clear

CONDUCTOR TYPE
1 Tin-Coated Copper
2 Silver-Coated Copper
3 Nickel-Coated Copper
4 Silver-Coated High-Strength Copper Alloy
6 Nickel-Coated High-Strength Copper Alloy
7 Tin-Coated Copper Clad Steel
8 Silver-Coated Copper Clad Steel
9 Bare Copper
0 Other
A Silver-Coated Ultra-High-Strength Copper Alloy
E Silver-Coated High-Strength Copper Alloy (ESA Compliant

DIELECTRIC
1 Rayfoam L (Polyethylene)
2 Rayfoam H (Foamed FEP)
3 Rayolin F (Solid)
4 Modified FEP (Solid)
6 XL-ETFE
7 Flexible XL-ETFE
8 Rayfoam M (Foamed MFA)
0 Other
L Low Fluoride XL-ETFE

TE Components . . . TE Technology . . . TE Know-how . . .
AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Empower Engineers to Solve Problems, Moving the World Forward.

50-Ohm Cheminax Cable

	Part No.	Conductor	Insulation Material / OD Inch (mm)	Shield Type / OD Inch (mm)	Jacket Material / OD Inch (mm)	Temp. Range (°C)	Nom. Weight Lbs./1000 ft. (kg/km)	Nom. Capacitance pF/ft. (pF/m)	Notes
RG-58 19 Strand	**RG-58**	TC (21 AWG)	PE 0.116 (2.95)	1 TC Braid 0.150 (3.53)	XL-PE 0.195 (4.95)	-30 to +85	23.7 (38.69)	30.8 (101.1)	Industry standard
	5021D1831	TC (21 AWG)	Rayolin 0.113 (2.87)	1 TC Braid 0.134 (3.40)	Zerohal 0.184 (4.67)	-30 to +105	23.7 (35.27)	31.3 (102.7)	Zero halogen
	5021F1031	TC (21 AWG)	Rayolin 0.113 (2.87)	1 TC Braid 0.134 (3.40)	FEP 0.195 (4.95)	-65 to +105	29.7 (44.20)	30.7 (100.7)	Excellent fluid resistance
	5021D1331	TC (21 AWG)	Rayolin 0.117 (2.97)	1 TC Braid 0.138 (3.51)	Thermorad S 0.188 (4.78)	-65 to +105	23.2 (34.52)	32.0 (105)	Improved temp. range
	5021K1011	TC (21 AWG)	Rayfoam L 0.083 (2.11)	1 TC Braid 0.114 (2.90)	XL-ETFE 0.134 (3.40)	-65 to +120	14.2 (21.11)	25.0 (82.0)	Smaller, lighter weight
RG-142 Solid	**RG-142**	SCCS (19 AWG)	PTFE 0.115 (2.95)	2 SC Braids 0.166 (4.22)	FEP 0.195 (4.95)	-55 to +200	48.5 (72.2)	29.3 (96.1)	Industry standard
	5019G3818	SCCS (19 AWG)	Rayfoam L0.116 (2.95)	2 SC Braids 0.158 (4.01)	Zerohal 0.184 (4.67)	-30 to +105	35.8 (53.3)	29.0 (95.4)	Zero halogen
	5019D3318	SCCS (19 AWG)	Rayfoam L0.101 (2.57)	2 SC Braids 0.139 (3.53)	Thermorad S 0.175 (4.45)	-65 to +120	25.1 (37.35)	27.1 (88.9)	Smaller, lighter weight
RG-142 19 Strand	5018A3812	SCCS (18 AWG)	Rayfoam L0.137 (3.48)	2 SC Braids 0.171 (4.34)	Zerohal 0.205 (5.21)	-30 to +105	32.7 (48.7)	26.7 (87.6)	Zero halogen Smaller, lighter weight
	5018A3022	SCCS (18 AWG)	Rayfoam L0.125 (3.18)	2 SC Braids 0.167 (4.24)	FEP0.187 (4.75)	-65 to +200	37.4 (55.7)	25.0 (82.0)	Similar size Improved electrical performance
	5020A3422	SCCS (20 AWG)	Rayfoam L0.105 (2.27)	2 SC Braids 0.139 (3.53)	FEP0.169 (4.29)	-65 to +200	25.1 (37.4)	25.5 (83.7)	Smaller, lighter weight
RG-174 19 Strand	**RG-174**	CCS (26 AWG)	PE 0.060 (1.52)	1 TC Braid 0.088 (1.98)	XLPE 0.110 (2.79)	-40 to +80	10.0 (13)	30.8 (101.1)	Industry standard
	5024A1311	TC (24 AWG)	Rayfoam L 0.067 (1.70)	1 TC Braid 0.084 (2.13)	TH.RAD S 0.104 (2.64)	-65 to +120	7.9 (11.8)	27.5 (90.2)	Improved temp. range
	5024A1811	TC (24 AWG)	Rayfoam L 0.067 (1.70)	1 TC Braid 0.084 2.13)	Zerohal 0.106 (2.69)	-30 to +105	8.5 (12.7)	25 (82.0)	Zero halogen Smaller, lighter weight
RG-174 7 Strand	5026A1331	TC (26 AWG)	Rayolin 0.058 (1.45)	1 TC Braid 0.075 (1.91)	TH.RAD S 0.095 (2.41)	-65 to +105	6.9 (10.30)	31.5 (103.3)	Improved temp. range
	5026A1631	TC (26 AWG)	Rayolin 0.057 (1.45)	1 TC Braid 0.074 (1.88)	XL-ETFE 0.090 (2.29)	-65 to +120	6.9 (10.3)	31.3 (102.7)	Excellent fluid resistance Improved temp. range
	5026A1811	TC (26 AWG)	Rayfoam L 0.047 (1.19)	1 TC Braid 0.064 (1.63)	Zerohal 0.086 (2.18)	-30 to +105	6.0 (8.9)	26 (85.3)	Zero halogen, improved electrical performance Similar size
	5026A1314	SHSCA (26 AWG)	Rayfoam L 0.047 (1.19)	1 TC Braid 0.064 (1.63)	TH.RAD S 0.084 (2.19)	-65 to +120	5.6 (8.3)	27.1 (88.9)	Smaller, lighter weight
	5026D1424	SHSCA (26 AWG)	Rayfoam H 0.051 (1.30)	1 TC Braid 0.068 (1.73)	FEP 0.088 (2.24)	-65 to +150	7.6 (11.3)	27.6 (90.6)	Excellent fluid resistance Improved temp. range
RG-178 7 Strand	**RG-178**	SCCS (30 AWG)	PTFE 0.033 (0.84)	1 SC Braid 0.054 (1.37)	FEP 0.071 (1.80)	-55 to +200	5.7 (8.5)	30 (98.4)	Industry standard
	CLFH-178	SCCS (30 AWG)	Rayfoam L 0.032 (0.82)	1 TC Braid 0.047 (1.2)	Zerohal 0.071 (1.80)	-30 to +105	4.0 (6.0)	29.9 (98.4)	Zero halogen
	5030A1444	SHSCA (30 AWG)	FEP 0.032 (0.82)	1 TC Braid 0.045 (1.14)	FEP 0.059 (1.50)	-65 to +150	3.7 (5.5)	29.4 (96.5)	Lighter weight Smaller overall cable dia.
	5030A1314	SHSCA (30 AWG)	Rayfoam L 0.031 (0.79)	1 TC Braid 0.044 (1.12)	Thermorad S 0.062 (1.57)	-65 to +120	3.0 (4.5)	28.6 (93.8)	Improved temp. range Smaller, lighter weight
	5028A1314	SHSCA (28 AWG)	Rayfoam L 0.036 (0.61)	1 TC Braid 0.053 (1.35)	Thermorad S 0.071 (1.80)	-65 to +120	4.2 (6.3)	27.5 (90.2)	Improved temp. range Similar size, lighter weight; Improved electrical performance
	5028G1424	SHSCA (28 AWG)	Rayfoam H 0.034 (0.86)	1 SC Braid 0.051 (1.30)	FEP 0.067 (1.70)	-65 to +200	4.6 (6.8)	26.4 (86.6)	Improved temp. range Similar size, lighter weight; Improved electrical performance
RG-213 7 Strand	**RG-213**	BC (12 AWG)	PE 0.285 (7.24)	1 BC Braid 0.323 (8.31)	XL-PE 0.405 (10.29)	-40 to +80	115 (171)	32.2 (105.6)	Industry standard
	5012E1839	BC (12 AWG)	Rayolin 0.285 (7.24)	1 BC Braid 0.314 (7.98)	Zerohal 0.376 (9.55)	-30 to +105	94.8 (141)	30 (98.4)	Zero halogen Improved temp. range
	5012E1632	SC (12 AWG)	Rayolin 0.285 (7.24)	1 SC Braid 0.314 (7.98)	XL-ETFE 0.334 (8.48)	-30 to +105	77.7 (115.6)	30.3 (99.4)	Excellent fluid resistance Improved temp. range
	5012E1339	BC (12 AWG)	Rayolin 0.285 (7.24)	1 BC Braid 0.314 (7.98)	Thermorad S 0.403 (10.24)	-65 to +105	109 (162)	30 (98.4)	Improved temp. range
	5012E1112	SC (12 AWG)	Rayfoam L 0.231 (5.87)	1 SC Braid 0.257 (6.53)	XL-PVF 20.285 (7.24)	-65 to +125	53.7 (79.9)	25.7 (84.3)	Improved temp. range Smaller size, Lighter weight

TC - Tinned Copper, SC - Silver Plated Copper,
BC - Bare Copper, SCCS - Silver Plated Copper Covered Steel
CCS - Copper Covered Steel, SHSCA - Silver Plated High-Strength Copper Alloy

50-Ohm Cheminax Cable

	Part No.	Conductor	Insulation Material / OD Inch (mm)	Shield Type / OD Inch (mm)	Jacket Material / OD Inch (mm)	Temp. Range (°C)	Nom. Weight Lbs./1000 ft. (kg/km)	Nom. Capacitance pF/ft. (pF/m)	Notes
RG-214 7 Strand	**RG-214**	SC (12 AWG)	PE 0.285 (7.24)	2 SC Braid 0.348 (8.34)	FEP 0.195 (4.95)	-55 to +200	48.5 (72.2)	29.3 (96.1)	Industry standard
	5012F3832	SC (12 AWG)	Rayolin 0.284 (7.21)	2 SC Braids 0.158 (4.01)	Zerohal 0.184 (4.67)	-30 to +105	35.8 (53.3)	29.0 (95.4)	Zero halogen
	5012F3332	SC (12 AWG)	Rayolin 0.284 (7.21)	2 SC Braids 0.139 (3.53)	Thermorad S 0.175 (4.45)	-65 to +120	25.1 (37.35)	27.1 (88.9)	Smaller, lighter weight
	5012H3012	SC (12 AWG)	Rayfoam L 0.239 (6.07)	2 SC Braids 0.139 (3.53)	Thermorad S 0.175 (4.45)	-65 to +120	25.1 (37.35)	27.1 (88.9)	Smaller, lighter weight
RG-223 Solid	**RG-223**	SC (19 AWG)	PE 0.116 (2.95)	2 SC Braid 0.348 (8.34)	XL-PE 0.212 (5.38)	-30 to +85	38.8 (57.7)	30.8 (101.1)	Industry standard
	5019G3812	SC (19 AWG)	Rayfoam L 0.116 (2.95)	2 SC Braid 0.158 (4.01)	Zerohal 0.195 (4.95)	-30 to +105	34.7 (51.6)	29.0 (95.1)	Zero halogen Improved temp. range, Lighter weight, Improved electrical performance Equivalent dielectric diameter
	5019D3028	SC (19 AWG)	Rayfoam H 0.092 (2.34)	2 SC Braid 0.126 (3.20)	FEP 0.156 (3.69)	-65 to +200	26.2 (39.0)	25.0 (82.0)	Improved temp. range Smaller, Lighter weight
	5019D3618	SC (19 AWG)	Rayfoam H 0.096 (2.44)	2 SC Braid 0.134 (3.40)	XL-ETFE 0.150 (3.81)	-65 to +120	21.3 (31.7)	26.4 (86.6)	Excellent fluid resistance Improved temp. range Smaller size, Lighter weight Improved electrical performance
RG-316 7 Strand	**RG-316**	SCCS (26 AWG)	PTFE 0.060 (1.52)	1 SC Braid 0.07 (1.98)	FEP 0.098 (2.49)	-55 to +200	11.2 (16.7)	29.4 (96.46)	Industry standard
	CLFH-316	SCCS (26 AWG)	Rayfoam L0.055 (1.40)	1 TC Braid 0.081 (2.06)	Zerohal 0.098 (2.49)	-30 to +105	7.4 (11.0)	29.9 (98.0)	Zero halogen Lighter weight
	5026D1028	SCCS (26 AWG)	Rayfoam H0.051 (1.30)	1 TC Braid 0.068 (1.73)	FEP 0.088 (2.24)	-65 to +150	7.2 (10.7)	27.6 (90.6)	Smaller size Lighter weight
	5026A1318	SCCS (26 AWG)	Rayfoam L0.047 (1.19)	1 TC Braid 0.064 (1.63)	Thermorad S 0.084 (2.13)	-65 to +120	5.5 (8.2)	27.5 (90.2)	Smaller size Lighter weight
	5024A1314	TC (24 AWG)	Rayfoam L0.067 (1.70)	1 TC Braid 0.084 (2.13)	TH.RAD S 0.104 (2.64)	-65 to +120	7.9 (11.8)	27.5 (90.2)	Similar size Improved electrical performance
	5024A1424	TC (24 AWG)	Rayfoam H0.063 (1.60)	1 TC Braid 0.080 (2.03)	FEP 0.096 (2.44)	-65 to +150	9.0 (13.4)	26.0 (85.3)	Similar size Improved electrical performance
RG-400 19 Strand	**RG-400**	SC (20 AWG)	PTFE 0.116 (2.95)	2 SC Braid 0.166 (4.24)	FEP 0.195 (4.95)	-55 to +200	48.5 (72.2)	29.3 (96.1)	Industry standard
	CLFH-400	SC (20 AWG)	Rayfoam L 0.114 (2.90)	2 TC Braid 0.156 (3.96)	Zerohal 0.195 (4.95)	-30 to +105	25.5 (38.0)	29.9 (98.0)	Zero halogen Lighter weight
	5020G3442	SC (18 AWG)	Rayfoam H 0.114 (3.18)	2 SC Braid 0.167 (4.24)	FEP 0.187 (4.75)	-65 to +200	37.4 (55.7)	25.0 (82.0)	Lighter weight
	5020A3612	SC (20 AWG)	Rayfoam L 0.107 (2.72)	2 SC Braid 0.141 (3.58)	XL-ETFE 0.157 (3.99)	-65 to +120	21.7 (32.3	26.4 (86.6)	Smaller size Lighter weight
	5020A3312	SC (20 AWG)	Rayfoam L 0.107 (2.72)	2 SC Braid 0.141 (3.58)	TH.RAD S 0.157 (3.99)	-65 to +120	23.1 (34.4)	26.4 (86.6)	Smaller size Lighter weight
75-Ohm Cheminax Cable									
RG-179 7 Strand	**RG-179**	SCCS (30 AWG)	PTFE 0.063 (1.60)	1 SC Braid 0.084 (2.13)	FEP 0.100 (2.54)	-55 to +200	9.7 (14.4)	21.5 (70.5)	Industry standard
	CLFH-179	SCCS (30 AWG)	Rayfoam L 0.059 (1.51)	1 TC Braid 0.076 (1.93)	Zerohal 0.100 (2.54)	-30 to +105	7.4 (11)	19.8 (65)	Zero halogen
	7530D1334	SHSCA (30 AWG)	Rayolin 0.067 (1.70)	1 TC Braid 0.084 (2.13)	Thermorad S 0.104 (2.64)	-65 to +105	7.6 (11.3)	20.6 (67.6)	Lighter weight
	7530H1444	SHSCA (30 AWG)	FEP 0.063 (1.60)	1 SC Braid 0.080 (2.03)	FEP 0.100 (2.54)	-65 to +200	9.7 (14.4)	19.6 (64.3)	Equivalent
	7530H1424	SHSCA (30 AWG)	Rayfoam H 0.051 (1.30)	1 SC Braid 0.068 (1.73)	FEP 0.080 (2.03)	-65 to +200	5.7 (8.5)	17.5 (57.4)	Smaller, lighter weight
	7530A1314	SHSCA (30 AWG)	Rayfoam L 0.053 (1.35)	1 SC Braid 0.070 (1.78)	Thermorad S 0.090 (2.29)	-65 to +120	5.6 (8.3)	18.3 (60.0)	Smaller, lighter weight
	7528A1424	SHSCA (28 AWG)	Rayfoam H 0.066 (1.68)	1 TC Braid 0.079 (2.01)	FEP 0.099 (2.51)	-65 to +150	7.8 (11.6)	17.4 (57.1)	Similar size, lighter weight; Improved electrical performance
	7528A1314	SHSCA (28 AWG)	Rayfoam H 0.064 (1.63)	1 TC Braid 0.081 (2.06)	Thermorad S 0.105 (2.67)	-65 to +120	7.2 (10.7)	17.6 (57.7)	Similar size, lighter weight; Improved electrical performance
	7528A1814	SHSCA (28 AWG)	Rayfoam H 0.063 (1.60)	1 TC Braid 0.080 (2.03)	Zerohal 0.104 (2.64)	-30 to +105	7.5 (11.2)	17.4 (57.1)	Zero halogen Similar size, lighter weight; Improved electrical performance

Recommended Connectors

Part No.	Conductor	Inch (mm)	Inch (mm)	Inch (mm)	Temp. Range	(kg/km)
RG-58	5021D1831, 5021D1331, 5021F1031	Plug	1996812-7	1996821-8	–	–
		Right-Angle Plug	1996815-7	2101646-8	–	–
		Bulkhead Jack	1996818-7	1996824-8	–	–
	5021K1011	Plug	1996812-6	1996821-7	–	–
		Right-Angle Plug	1996815-7	2101646-7	–	–
		Bulkhead Jack	1996818-8	1996824-7	–	–
RG-142	5019G3818 5019D3318	Plug	1996812-3	2101645-1	2101647-1	2101828-5
		Right-Angle Plug	1996815-3	2101646-1	2101648-1	2101829-5
		Bulkhead Jack	1996818-3	1-1996824-4	–	2101830-5
	5018A3812 5018A3022	Plug	1996812-2	1996821-5	–	2101828-4
		Right-Angle Plug	1996815-2	2101646-5	–	2101829-4
		Bulkhead Jack	1996818-2	1996824-5	–	2101830-4
	5020A3422	Plug	1996812-4	2101642-1	–	2101828-6
		Right-Angle Plug	1996815-4	2101643-1	2101644-1	2101829-6
		Bulkhead Jack	1996818-4	1-1996824-5	–	2101830-6
RG-174	5026A1331 5026A1631	Plug	1-1996812-1	1-1996821-2	–	–
		Right-Angle Plug	1-1996815-1	1-2101646-2	–	–
		Bulkhead Jack	1-1996818-1	1-1996824-2	–	–
	5026A1811 5026A1314 5026D1424	Plug	1-1996812-0	1-1996821-1	–	–
		Right-Angle Plug	1-1996815-0	1-2101646-1	–	–
		Bulkhead Jack	1-1996818-0	1-1996824-1	–	–
	5024A1311 5024A1811	Plug	1996810-1	1996819-1	–	–
		Right-Angle Plug	1996813-1	–	–	–
		Bulkhead Jack	1996816-1	1996822-1	–	–
RG-178	CLFH-178 5030A1314	Plug	1-1996812-3	–	–	–
		Right-Angle Plug	1-1996815-3	–	–	–
		Bulkhead Jack	1-1996818-3	–	–	–
	5030A1444	Plug	1996812-1	1996821-1	1996827-1	–
		Right-Angle Plug	1996815-1	–	–	–
		Bulkhead Jack	1996818-1	1996824-1	1996830-1	–
	5028A1314 5028G1424	Plug	1-1996812-2	1-1996821-3	–	–
		Right-Angle Plug	1-1996815-2	1-2101646-3	–	–
		Bulkhead Jack	1-1996818-2	1-1996824-3	–	–
RG-213	5012E1839, 5012E1632, 5012E133	Plug	–	1996821-2	1996825-1	2101828-1
		Right-Angle Plug	–	2101646-2		2101829-1
		Bulkhead Jack	–	1996824-2	1996828-1	2101830-1
	5012E1112		–	–	–	–
RG-214	5012F3832, 5012F333	Plug	–	1996821-4	–	2101828-3
		Right-Angle Plug	–	2101646-4	–	2101829-3
		Bulkhead Jack	–	1996824-4	–	2101830-3
	5012H3012	Plug	–	1996821-3	–	2101828-2
		Right-Angle Plug	–	2101646-3	–	2101829-2
		Bulkhead Jack	–	1996824-3	–	2101830-2
RG-223	5019G3812, 5019D3028, 5019D3618	Plug	1996812-3	2101645-1	2101647-1	2101828-5
		Right-Angle Plug	1996815-3	2101646-1	2101648-1	2101829-5
		Bulkhead Jack	1996818-3	1-1996824-4	–	2101830-5
RG-315	CLFH-316, 5024A1314, 5024A1424	Plug	1996812-4	1-1996821-0	–	–
		Right-Angle Plug	1996815-4	1-2101646-0	–	–
		Bulkhead Jack	1996818-4	1-1996824-0	–	–
	5026D1028, 5026A1318	Plug	1-1996812-0	1-1996821-1	–	–
		Right-Angle Plug	1-1996815-0	1-2101646-1	–	–
		Bulkhead Jack	1-1996818-0	1-1996824-1	–	–
RG-400	CLFH-400, 5020A3612, 5020A3312	Plug	1996812-4	2101642-1	–	2101828-6
		Right-Angle Plug	1996815-4	2101643-1	2101644-1	2101829-6
		Bulkhead Jack	1996818-4	1-1996824-5	–	2101830-6
	5020G3442	Plug	1996812-5	1996821-6	–	2101828-7
		Right-Angle Plug	1996815-5	2101646-6	–	2101829-7
		Bulkhead Jack	1996818-5	1996824-6	–	2101830-7

LET'S CONNECT

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