SMA Cable Assemblies
RF174, RF178, RF316, RS316, RF058

Supplied with pins, washers, nuts and ferrules. See website for dimensions.

SERIES		END 1 CONNECTOR	END 2 CONNECTOR	OVERALL LENGTH
RF174 = RG 174 Cable		**–01SP1** = SMA Straight Plug		**–"XXXX"** = Overall Length in millimeters
RF178 = RG 178 Cable (-01BJ1 & -01BR1 only)		**–01RP1** = SMA Right-angle Plug		–0100 (100 mm) 3.94" minimum
RF316 = RG 316 Cable, Single Braid Shield		**–01BJ1** = SMA Straight Bulkhead Jack		
RS316 = RG 316 Cable, Double Shield (-01SP1 & -01BJ1 only)		**–01SB1** = Straight Bulkhead Jack, Sealed		
RF058 = RG 58 Cable, (-01SP1, -01BJ1 & 01SB1 only)		**–01SR1** = Straight Bulkhead Jack, Sealed, Reversed Polarity		
		–01BR1 = Straight Bulkhead Jack, Reversed Polarity		
		–01PN1 = 4-Hole Panel Mount Jack		

ALSO AVAILABLE

50 Ω: MCX, MMCX, SMB, BNC, TNC,
N Type = RF174, RF178, RF316

50 Ω: MCX, MMCX, BNC, TNC = RS316

50 Ω: TNC = RF058

SMA Cable Connectors
SMA-CA

Supplied with pins, washers, nuts and ferrules. See website for dimensions.

(11.00) .433 Hex.

(12.60) .496

–S10, –B10

SMA	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION	
	–J = Jack	**–C** = Cable	**–H** = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact (N/A with –BH1S)	**–ST** = Straight	**–BH1** = Bulkhead RG 174 / 316 Cable	**–BH1S** = Bulkhead RG 316 Cable, Double Shield
		–C4 = Cable 4-Mounting Screws (–PN1 only)	**–HF** = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact (–BH1S only)		**–BH2** = Bulkhead RG 178 Cable	**–B10** = Bulkhead RG 58 Cable
					–BR1 = Bulkhead RG 174 / 316, Reversed Polarity	**–PN1** = 4-Hole Panel Mount RG 174 / 316 Cable
					–BR2 = Bulkhead RG 178 Cable, Reversed Polarity	**–S10** = Sealed Bulkhead RG 58 Cable

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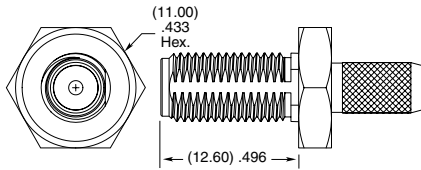
SMA Board Connectors
See page 145 for Board Connectors

(8.40) .331

(8.00) .315 Hex.

–ST-C10

SMA	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	–P = Plug	**–C** = Cable	**–H** = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact (–CA1, –C10 only)	**–ST** = Straight	**–CA1** = RG 174 / 316 Cable
				–RA = Right-angle	**–C10** = RG 58 Cable (–ST only)
			–HF = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact (–CA1S only)		**–CA1S** = RG 316 Double Shielded Cable (–ST only)

Supplied with pins, washers, nuts and ferrules. See website for dimensions.

MCX Cable Assemblies
RF174, RF178, RF316, RS316

SERIES	-	END 1 CONNECTOR	-	END 2 CONNECTOR	-	OVERALL LENGTH

RF174
= RG 174 Cable

RF178
= RG 178 Cable

RF316
= RG 316 Cable, Single Braid Shield

RS316
= RG 316 Cable, Double Shielded

–02SJ1
= MCX Straight Jack

–02RP1
= MCX Right-angle Plug (RS316 not available)

–02SP1
= MCX Straight Plug

–"XXXX"
= Overall Length in millimeters

–0100 (100 mm) 3.94" minimum

ALSO AVAILABLE

50 Ω: MMCX, SMA, SMB, BNC, TNC,

N Type = RF174, RF178, RF316

50 Ω: MMCX, SMA, BNC, TNC = RS316

MCX Cable Connectors
MCX-CA

Supplied with pins and ferrules. See website for dimensions.

| CONNECTORS FOR INDUSTRY STANDARD CABLES	
MCX-J-C-H-ST-CA1	RG 174/316 Cable
MCX-J-C-H-ST-CA2	RG 178 Cable
MCX-J-C-HF-ST-CA1S	RG 316 Double Shielded Cable
MCX-P-C-H-ST-CA1	RG 174/316 Cable
MCX-P-C-H-ST-CA2	RG 178 Cable
MCX-P-C-HF-ST-CA1S	RG 316 Double Shielded Cable
MCX-P-C-H-RA-CA1	RG 174/316 Cable
MCX-P-C-H-RA-CA2	RG 178 Cable

P-C = Cable Plug
J-C = Cable Jack
H or HF = Plating (30 µ" Gold center contact, 3 µ" Gold outer contact)
ST = Straight
RA = Right-angle

TYPE (-RA)	A	B
–P–CA1	(7.78) .306	(9.50) .374
–P–CA2	(8.58) .338	(10.00) .394

TYPE (-ST)	E	F
–J–CA1	(4.50) .177	(15.50) .610
–J–CA2	(4.78) .188	(15.00) .591
–J–CA1S	(4.50) .177	(15.50) .610

-RA

(5.00) .197 SQ — (3.70) .146 DIA
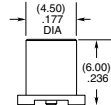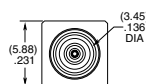

-P-ST

(4.80) .189 DIA — (15.70) .618 — (3.73) .146

J-ST
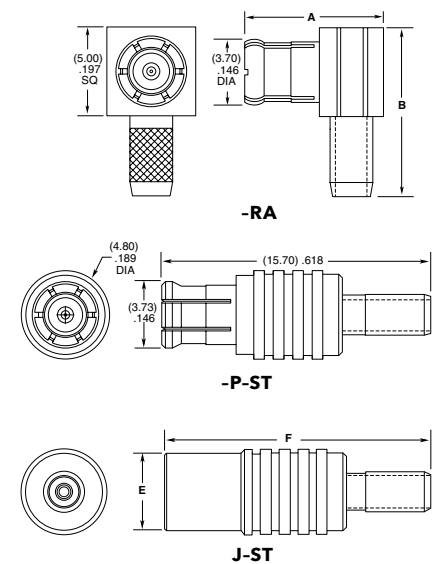
MCX Board Connectors
MCX-TH, MCX-SM, MCX-EM, MCX-MT

Cable Mates:
RF174, RF178, RF316, RS316, GRF1H-C, IJ5H

MCX	-	GENDER	-	TYPE	-	PLATING	-	ORIENTATION	-	TERMINATION

–J
= Jack

–P
= Plug

–P
= PCB Mount

–H
= 30 µ" (0.76 µm) Gold center contact, 3 µ" (0.08 µm) Gold outer contact

–ST
= Straight

–RA
= Right-angle

–TH1
= Through-hole (–ST plug not available)

–TH2
= Elevated Through-hole (–ST plug only)

–SM1
= Surface Mount (Jack only)

–EM1
= Edge Mount (–ST Jack only)
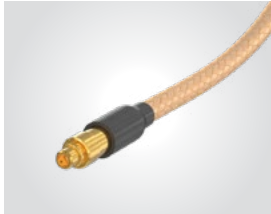
–MT1
= Mixed Technology (–ST Jack only)
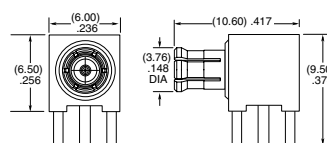
(3.45) .136 DIA
(5.88) .231
(4.50) .177 DIA
(6.00) .236

-ST-SM1 (Jack)

(6.00) .236
(6.50) .256
(10.60) .417
(3.76) .148 DIA
(9.50) .374

-RA-TH1 (Plug)

MMCX Cable Assemblies
RF174, RF178, RF316, RS316

SERIES	–	END 1 CONNECTOR	–	END 2 CONNECTOR	–	OVERALL LENGTH

RF174
= RG 174 Cable

RF178
= RG 178 Cable
(–03SP1 & –03RP1 only)

RF316
= RG 316 Cable, Single Braid Shield

RS316
= RG 316 Cable, Double Shielded
(–03SP1 only)

–03SP1
= MMCX Straight Plug

–03RP1
= MMCX Right-angle Plug

–V3SP1
= MMCXV Straight Plug, High Vibration

–V3RP1
= MMCXV Right-angle Plug, High Vibration

–V3SJ1
= MMCXV Straight Jack, High Vibration

–"XXXX"
= Overall Length in millimeters

–0100 (100 mm) 3.94" minimum

ALSO AVAILABLE

50 Ω: MCX, SMA, SMB, BNC, TNC,

N Type = RF174, RF178, RF316
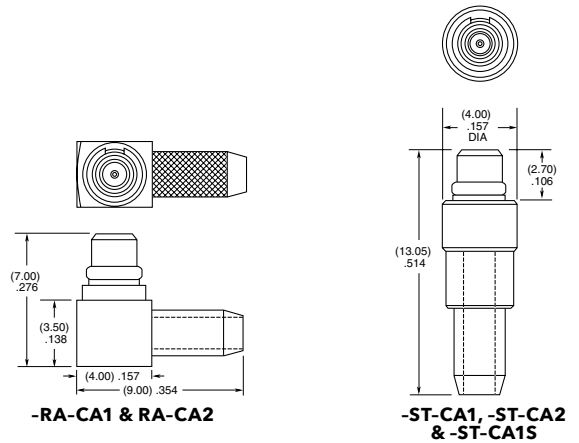
50 Ω: MCX, SMA, BNC, TNC = RS316

MMCX Cable Connectors
MMCX-CA

CONNECTORS FOR INDUSTRY STANDARD CABLES	
MMCX-P-C-H-ST-CA1	RG 174/316 Cable
MMCX-P-C-H-ST-CA2	RG 178 Cable
MMCX-P-C-HF-ST-CA1S	RG 316 Double Shielded Cable
MMCX-P-C-H-RA-CA1	RG 174/316 Cable
MMCX-P-C-H-RA-CA2	RG 178 Cable

P-C = Cable Plug
H or HF = Plating (30 µ" Gold center contact,
            3 µ" Gold outer contact)
ST = Straight
RA = Right-angle

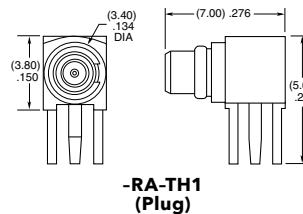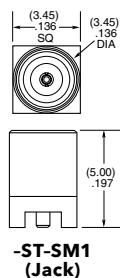Supplied with pins and ferrules.
See website for dimensions.

(7.00) .276
(3.50) .138
(4.00) .157
(9.00) .354

–RA-CA1 & RA-CA2

(4.00) .157 DIA
(2.70) .106
(13.05) .514

-ST-CA1, -ST-CA2 & -ST-CA1S

MMCX Board Connectors
MMCX-SM, MMCX-TH, MMCX-MT, MMCX-EM

Cable Mates:
RF174, RF178, RF316, RS316, GRF1H-C, IJ5H

MMCX	–	GENDER	–	TYPE	–	PLATING	–	ORIENTATION	–	TERMINATION

–J
= Jack

–P
= Plug

–P
= PCB Mount

–H
= 30 µ" (0.76 µm) Gold center contact, 3 µ" (0.08 µm) Gold outer contact

–ST
= Straight

–RA
= Right-angle

–TH1
= Through-hole

–MT1
= Mixed Technology (–ST only)

–SM1
= Surface Mount (–RA plug not available)

–EM1
= Edge Mount (–ST only)

(3.45) .136 SQ
(3.45) .136 DIA
(5.00) .197

-ST-SM1 (Jack)

(3.80) .150
(3.40) .134 DIA
(7.00) .276
(5.60) .220

-RA-TH1 (Plug)

TNC
Cable Assemblies
RF174, RF178, RF316, RS316, RF058

| SERIES | – | END 1 CONNECTOR | – | END 2 CONNECTOR | – | OVERALL LENGTH |

RF174
= RG 174 Cable

RF178
= RG 178 Cable

RF316
= RG 316 Cable, Single Braid Shield

RS316
= RG 316 Cable, Double Shielded

RF058
= RG 58 Cable

–05SP3
= TNC Straight Plug (RF058 not available)

–05BJ3
= TNC Straight Bulkhead Jack (RS316 & RF058 not available))

–05SR3
= TNC Straight Plug, Reversed Polarity (RF058 only)

–"XXXX"
= Overall Length in millimeters

–0100 (100 mm) 3.94"
minimum

ALSO AVAILABLE

50 Ω: MCX, MMCX, SMA, SMB, BNC,

N Type = RF174, RF178, RF316

50 Ω: MCX, MMCX, SMA, BNC = RS316

50 Ω: SMA, N Type = RF058

TNC
Cable Connectors
TNC-CA

CONNECTORS FOR INDUSTRY STANDARD CABLES	
TNC-P-C-GN-ST-CA1	RG 174/316 Cable
TNC-P-C-GN-ST-CA2	RG 178 Cable
TNC-P-C-GN-SR-C10	RG 58 Cable
TNC-J-C-GN-ST-BH1	RG 174/316 Cable, Bulkhead
TNC-J-C-GN-ST-BH2	RG 178 Cable, Bulkhead

P-C = Cable Plug
J-C = Cable Jack
GN = Plating (10 µ" Gold on contact, Nickel on body)
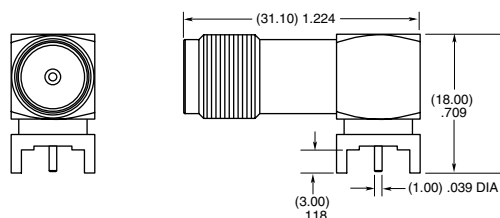ST = Straight
SR = Straight Reverse Polarity

Supplied with pins, washers, nuts and ferrules. See website for dimensions.

(29.80) 1.173
(17.50) .689 Hex.
-J

(25.00) .984
(14.50) .571
-P
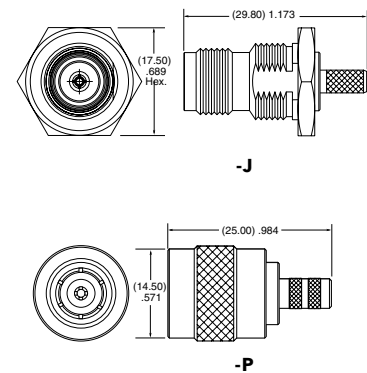
TNC
Board Connectors
TNC-TH

Cable Mates:
RF174, RF178, RF316, RS316, RF058 , GRF1H-C

| TNC | | GENDER | – | TYPE | – | PLATING | – | ORIENTATION | – | TERMINATION |

–J
= Jack

–P
= PCB Mount

–H
= 30 µ" (0.76 µm) Gold center contact, Nickel on shell

–RA
= Right-angle

–TH1
= Through-hole

(31.10) 1.224
(18.00) .709
(3.00) .118
(1.00) .039 DIA

BNC
Cable Assemblies
RF174, RF178, RF316, RS316

SERIES	–	END 1 CONNECTOR	–	END 2 CONNECTOR	–	OVERALL LENGTH

RF174
= RG 174 Cable

RF178
= RG 178 Cable

RF316
= RG 316 Cable, Single Braid Shield

RS316
= RG 316 Cable, Double Shielded

–04SP3
= BNC Straight Plug (RS316 not available)

–04BJ2
= BNC Bulkhead Jack

–"XXXX"
= Overall Length in millimeters

–0100 (100 mm) 3.94" minimum

ALSO AVAILABLE

50 Ω: MCX, MMCX, SMA, SMB, TNC,

N Type = RF174, RF178, RF316

50 Ω: MCX, MMCX, SMA, TNC = RS 316

BNC
Cable Connectors
BNC5-CA

Supplied with pins, washers, nuts, gaskets and ferrules. See website for dimensions.

CONNECTORS FOR INDUSTRY STANDARD CABLES	
BNC5-P-C-GN-ST-CA1	RG 174/316 Cable
BNC5-P-C-GN-ST-CA2	RG 178 Cable
BNC5-J-C-GN-ST-BH1	RG 174/316 Cable, Bulkhead
BNC5-J-C-GN-ST-BH2	RG 178 Cable, Bulkhead
BNC5-J-C-GN-ST-BH1S	RG 316 Double Shielded Cable, Bulkhead

P-C = Cable Plug
J-C = Cable Jack
GN = Plating (10 µ" Gold on contact, Nickel on body)
ST = Straight

(23.40) .921
(14.50) .571
(13.80) .543 DIA

-P

(17.50) .689 Hex.

(18.70) .736

(29.80) 1.173

-J
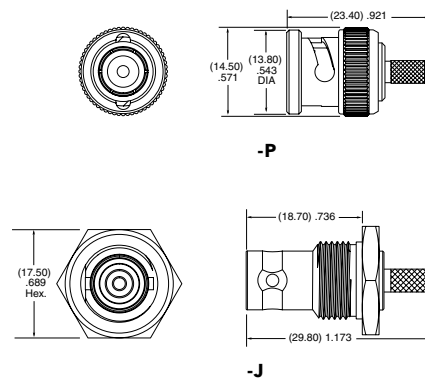
SMB
Cable Assemblies
RF174, RF178, RF316

SERIES	–	END 1 CONNECTOR	–	END 2 CONNECTOR	–	OVERALL LENGTH

RF174
= RG 174 Cable

RF178
= RG 178 Cable

RF316
= RG 316 Cable, Single Braid Shield

–07SP1
= SMB Straight Plug

–07RP1
= SMB Right-angle Plug

–07BJ1
= SMB Bulkhead Jack

–07BJ2
= SMB Bulkhead Jack (RF178 only)

–"XXXX"
= Overall Length in millimeters

–0100 (100 mm) 3.94" minimum

ALSO AVAILABLE

50 Ω: MCX, MMCX, SMA, BNC, TNC,

N Type = RF174, RF178, RF316

SMB
Cable Connectors
SMB5-CA

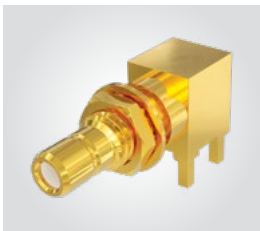| CONNECTORS FOR INDUSTRY STANDARD CABLES	
SMB5-P-C-H-ST-CA1	RG 174/316 Cable
SMB5-P-C-H-RA-CA1	RG 174/316 Cable
SMB5-J-C-H-ST-CA2	RG 178 Cable
SMB5-J-C-H-ST-BH1	RG 316 Cable, Bulkhead

P-C = Cable Plug
J-C = Cable Jack
H = Plating (30 μ" Gold center contact,
    3 μ" Gold on outer contact)
ST = Straight
RA = Right-angle

Supplied with pins, washers, nuts and ferrules. See website for dimensions.

(16.60) .654
(6.35) .250 DIA
–P-ST

(18.00) .709
(3.68) .145 DIA
(4.36) .172
–J-ST-BH1

(7.00) .276
(6.35) .250 DIA
(14.10) .555
(12.00) .472
–P-RA
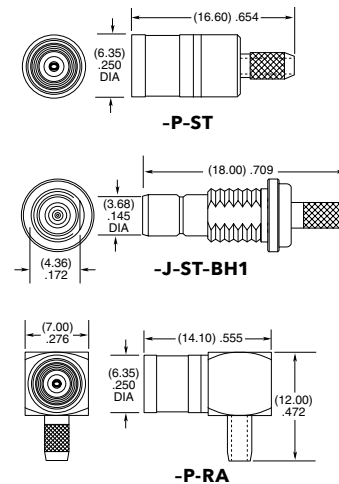
SMB
Board Connectors
SMB5-TH

Cable Mates:
RF174, RF178, RF316, GRF1H-C, IJ5H

SMB5	–	GENDER	–	TYPE	–	PLATING	–	ORIENTATION	–	TERMINATION

–J
= Jack

–P
= PCB Mount

–H
= 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact

–RA
= Right-angle

–TH1
= Through-hole

(10.92) .430

(20.45) .805