BNC
Cable Assemblies
RFC6T, RFA6T,
RFB6T, RF179

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

RFC6T*
= 12G-SDI, Belden 4694R Cable

RFA6T
= RG 6 Cable

RFB6T
= Belden 1694A Cable

RF179
= RG 179 Cable

–74SP3
= 75 Ω BNC Straight Plug

–D4SP3
= 75 Ω BNC Die Cast Straight Plug
(RFA6T, RFB6T, RF179 only)

–74BJ3
= 75 Ω BNC Bulkhead Jack (RF179 only)

–74RP3
= 75 Ω BNC Right-angle Plug
(RFA6T, RFB6T, RFC6T only)

–"XXXX"
= Overall Length
in millimeters

–0300 (300 mm)
11.81" minimum
(RFA6T, RFB6T, RFC6T)

–0100 (100 mm)
3.94" minimum
(RF179)

ALSO AVAILABLE

75 Ω: DIN 1.0/2.3, HD-BNC™ = RFA6T, RFB6T, RFC6T

75 Ω: DIN 1.0/2.3, SMB, MCX, MMCX = RF179

*Designed to meet SMPTE 2082
12G-SDI specifications.
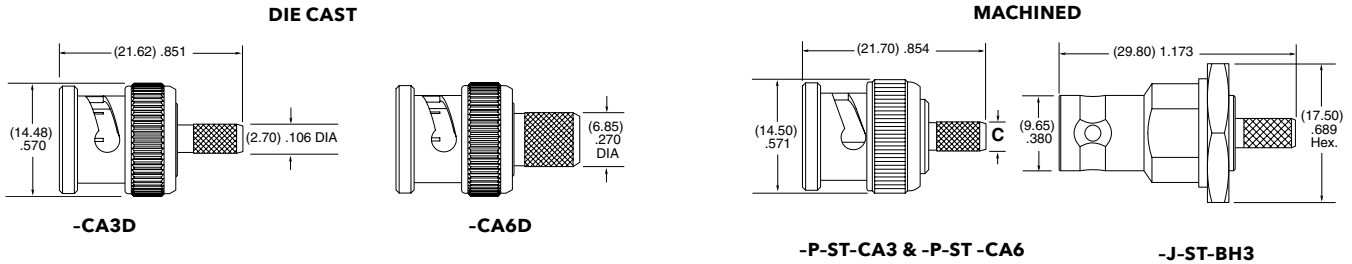
BNC
Cable Connectors
BNC7T-CA

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

CONNECTORS FOR INDUSTRY STANDARD CABLES	
BNC7T-P-C-GN-ST-CA3	Machined, RG 179 Cable
BNC7T-P-C-GN-RA-CA3	Machined, RG 179 Cable
BNC7T-P-C-GN-ST-CA6	*Machined, RG 6 Cable
BNC7T-P-C-GN-RA-CA6	*Machined, RG 6 Cable
BNC7T-P-C-GN-ST-CA6B	Belden 4694R Cable
BNC7T-P-C-GN-RA-CA6B	Belden 4694R Cable
BNC7T-J-C-GN-ST-BH3	Machined, Bulkhead, RG 179 Cable
BNC7T- P-C-GN-ST-CA3D	Die Cast, RG 179 Cable
BNC7T-P-C-GN-ST-CA6D	Die Cast, RG 179 Cable

P-C = Cable Plug
J-C = Cable Jack
GN = Plating (10 μ" Gold on contact, Nickel on outer contact and shell)
ST = Straight
RA = Right-angle

*Designed to meet SMPTE 2082 12G-SDI specifications.

DIE CAST

(21.62) .851
(14.48) .570
(2.70) .106 DIA
–CA3D

(6.85) .270 DIA
–CA6D

MACHINED

(21.70) .854
(14.50) .571
C
–P-ST-CA3 & -P-ST –CA6

(29.80) 1.173
(9.65) .380
(17.50) .689 Hex.
–J-ST-BH3

TERMINATION	C (DIA)
–CA3	(2.70) .106
–CA6	(6.85) .207

Note:
Additional plating options available
on Cable Assemblies, Cable
Connectors and Board Connectors.
Contact RFGroup@samtec.com

75 Ω DIE CAST BNC TO 12 GHz

I2G SDI

BNC Board Connectors
BNC7T-TH, BNC7T-BH,
BNC7T-BM, BNC7T-EM

Cable Mates:
RF179, RFA6T, RFB6T,
RFC6T, GRF7H-C

BNC7T	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	–J = Jack	**–P** = PCB Mount	**–GN** = 10 µ" (0.25 µm) Gold contact, 100 µ" (2.54 µm) Nickel Shell	**–ST** = Straight **–RA** = Right-angle Bulkhead/Panel Mount	**–TH2D** = Tall Through-hole Die Cast (–ST only) **–BH2D*** = Low-Profile Die Cast Bulkhead Through-hole (–RA only) **–BM1D*** = Low-Profile Die Cast Bulkhead Mixed Technology for (1.60 mm) .062" PCB (-RA only) **–BM2D*** = Low-Profile Die Cast Bulkhead Mixed Technology for (3.18 mm) .125" PCB (-RA only) **–EM1D*** = Edge Mount Die Cast Bulkhead/Panel Mount for (1.60 mm) .062" PCB (–ST only) **–EM2D*** = Edge Mount Die Cast Bulkhead/Panel Mount for (2.40 mm) .093" PCB (–ST only)

Notes:
Contact RFGroup@samtec.com for 12G-SDI PCB mount launch characteristics.

Designed to meet SMPTE 2082 12G-SDI specifications.

Additional plating options available on Board Connectors. Contact RFGroup@samtec.com

(15.40) .606
(10.15) .400
(34.29) 1.350
(9.65) .380 DIA

–RA-BM1D
(BALANCED FOR PICK-AND-PLACE)

(25.48) 1.003
(9.65) .380 DIA

–ST-EM1D & -ST-EM2D

(13.90) .547
(10.80) .425
(29.00) 1.142
(9.65) .380 DIA

–RA-BH2D

(9.65) .380 DIA
(23.50) .925
(13.41) .528

–ST-TH2D

*Lock washers & knurled nuts supplied with bulkhead/panel mount options

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75 Ω MACHINED BNC TO 12 GHz

BNC Board Connectors
BNC7T-TH, BNC7T-BH, BNC7T-EM

Cable Mates:
RF179, RFA6T, RFB6T, RFC6T, GRF7H-C

BNC7T	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	–J = Jack	**–P** = PCB Mount	**–GN** = 10 µ" (0.25 µm) Gold contact, 100 µ" (2.54 µm) Nickel Shell	**–ST** = Straight **–RA** = Right-angle Bulkhead/Panel Mount	**–TH1** = Standard Through-hole (–ST only) **–BH1*** = Standard Bulkhead Through-hole (–RA only) **–EM1*** = Edge Mount Bulkhead/Panel Mount for (1.60 mm) .062" PCB (–ST only) **–EM2*** = Edge Mount Bulkhead/Panel Mount for (2.40 mm) .093" PCB (–ST only)

Notes:
Contact RFGroup@samtec.com for 12G-SDI PCB mount launch characteristics.

Designed to meet SMPTE 2082 12G-SDI specifications.

Additional plating options available on Board Connectors. Contact RFGroup@samtec.com

(10.92) .430
(12.70) .500
(25.48) 1.003
(9.65) .380 DIA

–ST-EM1 & -ST-EM2

(9.65) .380 DIA
(18.00) .709

-ST-TH1

(21.00) .827
(32.75) 1.289

–RA-BH1

*Lock washers & knurled nuts supplied with bulkhead/panel mount options

DIN Cable Assemblies
RFA6T, RFB6T, RF179, RFB8T, RFC6T, RFC8T

*Designed to meet SMPTE 2082 12G-SDI specifications.

SERIES	END 1 CONNECTOR	END 2 CONNECTOR	OVERALL LENGTH
RFC6T* = 12G-SDI, Belden 4694R Cable	**–78SP4** = 75 Ω DIN Straight Plug		**–"XXXX"** = Overall length in millimeters
RFC8T* = 12G-SDI, Belden 4855R Cable			–0100 (100 mm) 3.94" minimum (RF179)
RFA6T = RG 6 Cable			–0300 (300 mm) 11.81" minimum (RFA6T, RFB6T, RFB8T, RFC6T, RFC8T)
RFB6T = Belden 1694A Cable			
RF179 = RG 179 Cable			
RFB8T = Belden 1855A Cable			

ALSO AVAILABLE

75 Ω: HD-BNC™, BNC = RFB6T, RFA6T, RFC6T

75 Ω: BNC, SMB, MCX, MMCX = RF179

75 Ω: HD-BNC™ = RFB8T, RFC8T

DIN Cable Connectors
DIN7A-CA

Supplied with pins and ferrules.
See website for dimensions

CONNECTORS FOR INDUSTRY STANDARD CABLES	
DIN7A-PP-C-GF-ST-CA3	RG 179
DIN7A-PP-C-GF-ST-CA6	*RG 6, Belden 1694A or Belden 4694R Cable
DIN7A-PP-C-GF-ST-CA8	*Belden 1855A or Belden 4855R Cable

*Designed to meet SMPTE 2082 12G-SDI specifications.

PP-C = Push Pull Plug Cable

GF = Plating (10 μ" Gold on center contact, Flash Gold on outer contact, Nickel on Shell)

ST = Straight

(27.20) 1.07
(20.20) .795
(8.25) .325 DIA

–CA6
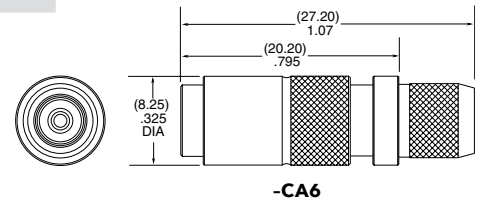
DIN Board Connectors
DIN7A-TH, DIN7A-BH

Cable Mates:
RFA6T, RFB6T, RF179, RFB8T, RFC6T, RFC8T, GRF7H-C

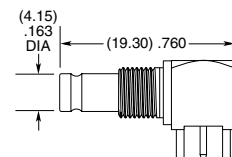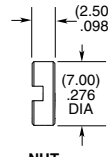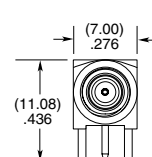| DIN7A	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	–J = Jack	**–P** = PCB Mount	**–GF** = 10 μ" (0.25 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact, (100 μ" (2.54 μm) Nickel body –RA only)	**–ST** = Straight (–TH1 only)	**–TH1** = Through-hole (–ST only)
				–RA = Right-angle (–BH1 only)	**–BH1** = Bulkhead Through-hole (–RA only)

Notes:
Contact RFGroup@samtec.com for 12G-SDI PCB mount launch characteristics.

Designed to meet SMPTE 2082 12G-SDI specifications.

Additional plating options available on Cable Assemblies, Cable Connectors and Board Connectors. Contact RFGroup@samtec.com

(5.93) .233

(4.15) .163 DIA

(14.50) .571

–ST-TH1

(7.00) .276

(11.08) .436

(2.50) .098

(7.00) .276 DIA

NUT

(4.15) .163 DIA

(19.30) .760
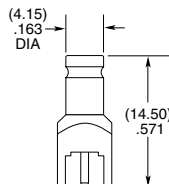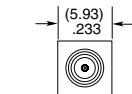
–RA-BH1

SMB
Cable Assemblies
RF179

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

RF179
= RG 179 Cable

–77SP1
= 75 Ω SMB Straight Plug

–77RP1
= 75 Ω SMB Right-angle Plug

–"XXXX"
= Overall Length in millimeters

–0100 (100 mm) 3.94" minimum

ALSO AVAILABLE

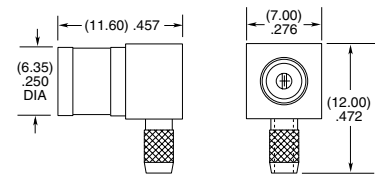75 Ω: DIN 1.0/2.3, BNC, MCX, MMCX = RF179
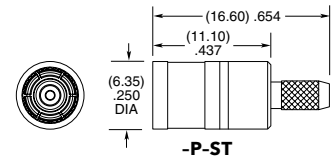

SMB
Cable Connectors
SMB7H-CA

CONNECTORS FOR INDUSTRY STANDARD CABLES	
SMB7H -P-C-H-ST-CA3	RG 179 Cable
SMB7H-P-C-HF-RA-CA3	RG 179 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

(6.35) .250 DIA
(11.60) .457
(7.00) .276
(12.00) .472

–P-RA

(16.60) .654
(11.10) .437
(6.35) .250 DIA

–P-ST

SMB
Board Connectors
SMB7H-TH, SMB7H-EM

Cable Mates:
RF179, GRF7H-C

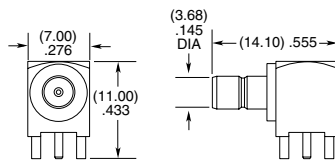| SMB7H	-	GENDER	-	TYPE	-	PLATING	-	ORIENTATION	-	TERMINATION

–J
= Jack

–P
= PCB Mount

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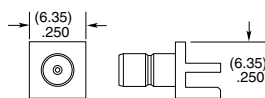
–ST
= Straight

–RA
= Right-angle

–TH1
= Through-hole
((0.90 mm) .035" DIA Signal Pin)

–TH2
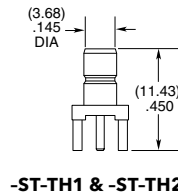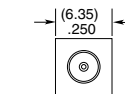= Through-hole
((0.51 mm) .020" DIA Signal Pin)
(–ST only)

–EM1
= Edge Mount
(–ST only)

(7.00) .276
(11.00) .433
(3.68) .145 DIA
(14.10) .555

-RA-TH1

(6.35) .250

(6.35) .250
(6.35) .250

-ST-EM1

(3.68) .145 DIA
(11.43) .450

-ST-TH1 & -ST-TH2

Note:
Additional plating options available on Cable Assemblies, Cable Connectors and Board Connectors. Contact RFGroup@samtec.com