I2G SDI

BNC Cable Assemblies
RFC6T, RFA6T, RFB6T, RF179

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

SERIES

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

RFA6T
= RG 6 Cable

RFB6T
= Belden 1694A Cable

RF179
= RG 179 Cable

END 1 CONNECTOR

–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)

OVERALL LENGTH

–"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.
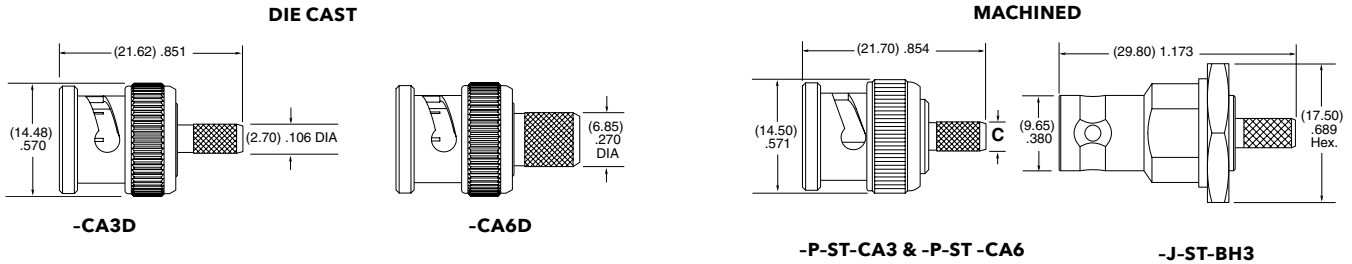
BNC Cable Connectors
BNC7T-CA

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

I2G SDI

75 Ω DIE CAST BNC TO 12 GHz

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)

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

(15.40)
.606

(10.15)
.400

(9.65)
.380
DIA

(34.29) 1.350

–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

(9.65)
.380
DIA

(29.00) 1.142

–RA-BH2D

(9.65)
.380
DIA

(23.50)
.925

(13.41)
.528

–ST-TH2D

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

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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)

(10.92)
.430

(12.70)
.500

(9.65)
.380
DIA

(25.48) 1.003

-ST-EM1 & -ST-EM2

(9.65)
.380
DIA

(18.00)
.709

-ST-TH1

(21.00)
.827

(32.75) 1.289

-RA-BH1

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