



RFB8T SERIES

# 75 Ω OPTIMIZED 1855A CABLE ASSEMBLIES

## SPECIFICATIONS

### RF Connector:

**Outer Contact Material:** Ni plated Brass (BNC)  
 Au plated BeCu (DIN)  
**Center Contact Material:** Au plated Brass  
**Operating Temperature:**

-65 °C to +125 °C

**Impedance:**

75 Ω ±2 Ω (ST), 75 Ω ±4 Ω (RA)

**Frequency Range:**

0-3.5 GHz \*

**Working Voltage:**

250 Vrms (DIN),  
 330 Vrms (BNC)

**Dielectric Withstanding:**

750 Vrms (DIN),  
 1000 Vrms (BNC)

**RoHS Compliant:**

Yes

### 1855A Cable:

**Impedance:**

75 Ω ±3 Ω

**Capacitance:**

56 ±3 pF/meter

**Max Attenuation (cable only):**

0.37 dB @ 1 GHz for 1 meter

**Conductor Size:**

23 AWG, (0.58 mm) .023" dia.

**Conductor Material:**

Bare Copper

**Insulator Material:**

Gas Injected Foamed Polyethylene

**Shield Material:**

Tin Copper

**Jacket Material:**

PVC

**Jacket Diameter:**

(4.03 mm) .159"

**Bend Radius:**

38.1 mm

**Jacket Color:**

Black

**RoHS Compliant:**

Yes

Mates with:  
 DIN7A, HDBNC



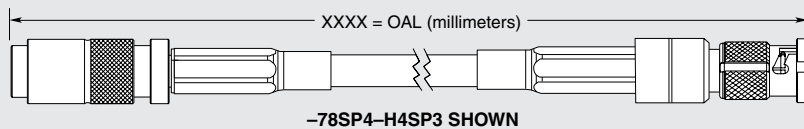
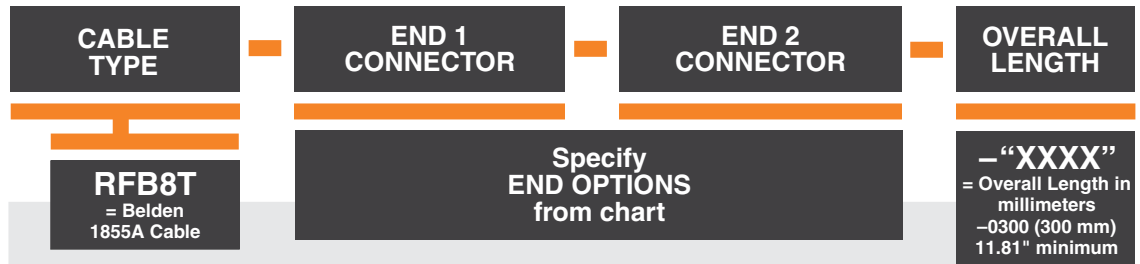
- Create a full system: cable assembly and board level mates, 50 Ω and 75 Ω solutions
- Free samples available
- Visit: rf.samtec.com

23 AWG 75 Ω  
 1855A Belden cable



Single or Double Ended

\* See connector component pages for specific range.



STRIPPED & TINNED (Dimensions in mm)

CALLOUT	A	B	C
-303030	3.0	3.0	3.0
-303040	3.0	3.0	4.0
-403030	4.0	3.0	3.0
-403040	4.0	3.0	4.0
-404040	4.0	4.0	4.0

Both center conductor and braid shield are stripped, only the center conductor is tinned.

## ALSO AVAILABLE (MOQ Required)

- Additional stripping and tinning options
- Additional plating options

## OTHER SOLUTIONS

- Hand tool available. Contact RFGroup@samtec.com
- Cable connector kits (see cable components catalog pages)

END OPTIONS	
-H4SP3 = 75 Ω High-Density BNC Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)	
-78SP4 = 75 Ω DIN Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)	

END OPTIONS	
-SING = Single Ended (End 2 callout)	
-XXXXXX = Stripped & Tinned (End 2 callout) (See chart for callout)	