

# RFX™ 50Ω & 75Ω BNC connectors

Amphenol® RFX™ BNC connectors are miniature bayonet-lock units. They are available in 50Ω and 75Ω types. The 50Ω type operates with low reflection DC-4 GHz on 50Ω cables and DC-500 MHz on 75 ohm cables. The 75Ω type operates DC-2 GHz on 75Ω cables. See specifications, page 26.

<p>Fig. 2 50Ω BNC 2 Piece Single Crimp Plugs</p>	
Cables	Connectors
RG-58	<b>31-5557-RFX</b>
Plenum 58	<b>31-5559-RFX</b>
RG-59, 62	<b>31-5556-RFX</b>
Plenum 59,62	<b>31-5560-RFX</b>
<p>Fig. 3 50Ω BNC SURETWIST® Plugs</p>	
Cables	Connectors
RG-58	<b>31-5137-RFX</b>
RG-59, 62	<b>31-5136-RFX</b>
<p>Fig. 4 50Ω BNC Clamp Type Plugs</p>	
Cables	Connectors
RG-8,213,214	<b>6775-RFX</b>
RG-58	<b>31-2-RFX (UG-88)</b>
RG-59, 62	<b>31-212-RFX (UG-260B)</b>
<p>Fig. 5 50Ω BNC QUICKTRIM® Plugs</p>	
Cables	Connectors
RG-59, 62	<b>31-4541-RFX (IBM ref 1836444)</b>

<p>Fig. 1 50Ω &amp; 75Ω BNC 3 Piece Crimp Type Plugs</p>	
Cables	Connectors
RG-6	50Ω <b>31-5558-RFX</b> 75Ω <b>31-71000-RFX</b>
RG-58	<b>31-320-RFX</b>
Plenum 58	<b>36650-3RFX</b>
RG-59, 62	50Ω <b>31-321-RFX</b> 75Ω <b>31-71008-RFX</b>
RG-59 (20 AWG Ctr Cond.)	<b>68175-5-RFX</b>
Plenum 59, 62	<b>68175-11RFX</b>
RG-174, 188, 316	<b>31-315-RFX</b>
RG-179, 187	50Ω <b>31-242-RFX</b> 75Ω <b>31-71013-RFX</b>
Belden 8281	<b>31-321-10RFX</b>

## RFX 50Ω & 75Ω BNC PLUGS • 2 stud bayonet mating • male contacts

Cable RG-/U	Cable Attachment		Dimensions, inches (millimeters)			Construction Notes					RFX Tool No	UG Ref. Number‡	Amphenol Number	Fig.
	Outer	Inner	a	b	c •	CAI	Pit.	Ins	Other	IMP				
6	Crimp	Crimp	1.17(29.8)	.571(14.5)	.314(8.0)	C6	P1	D2	3 pc	50Ω	CTL-2	—	31-5558-RFX	1
										75Ω	CTL-2	—		
8,213,214	Clamp	Solder	1.66(42.1)	.687(17.4)	.437(11.1)	C8	P2	D1	—	50Ω	—	UG-959	6775-RFX	4
58,141,142	Crimp	Crimp	1.17(29.8)	.571(14.5)	.210(5.3)	C6	P1	D2	3 pc	50Ω	CTL-1	—	31-320-RFX	1
										50Ω	CTL-2	—	31-5557-RFX	2
										50Ω	—	UG-88	31-2-RFX	4
Plenum 58	SURETWIST®	Crimp	1.48(37.6)	.571(14.5)	.185(4.7)	C9	P1	D2	1 pc	50Ω	—	—	31-5137-RFX	3
										50Ω	CTL-1	—	36650-3RFX	1
										50Ω	CTL-2	—	31-5559-RFX	2
										50Ω	—	UG-260B	31-212-RFX	4
59, 62	QUICKTRIM®	Crimp	1.04(26.5)	.571(14.5)	.250(6.4)	C10	P1	D2	—	50Ω	—	—	31-4541-RFX*	5
										50Ω	CTL-1	—	31-321-RFX	1
										50Ω	CTL-2	—	31-71008-RFX	1
										50Ω	CTL-2	—	31-5556-RFX	2
										50Ω	—	UG-260B	31-212-RFX	4
59 (20 AWG Ctr Cond)	Crimp	Crimp	1.17(29.8)	.571(14.5)	.260(6.6)	C6	P1	D2	3 pc	50Ω	CTL-1	—	68175-5RFX	1
Plenum 59, 62	Crimp	Crimp	1.28(32.6)	.571(14.5)	.212(5.4)	C6	P1	D2	3 pc	50Ω	CTL-1	—	68175-11RFX	1
										50Ω	CTL-2	—	31-5560-RFX	2
174, 188, 316	Crimp	Crimp	1.19(30.2)	.571(14.5)	.106(2.7)	C6	P1	D2	3 pc	50Ω	CTL-2	—	31-315-RFX	1
179, 187	Crimp	Crimp	1.19(30.2)	.571(14.5)	.106(2.7)	C6	P1	D2	3 pc	50Ω	CTL-2	—	31-242-RFX	1
										75Ω	CTL-2	—	31-71013-RFX	1
Belden 8281	Crimp	Crimp	1.17(29.8)	.571(14.5)	.334(8.5)	C6	P1	D2	3 pc	50Ω	CTL-2	—	31-321-10RFX	1

■ to end of crimp ferrule ☆ to end of clamp nut • accommodates cable diameter \* IBM 1836444; WANG 350-2075 ‡ For reference only. RFX™ connectors for commercial use only.