

Connector 7/8" for EC5-50-A (5228A) and EA5-50 (5227)

FEATURES

- Low reflection coefficient (up to 3.0 GHz)
- Low PIM level
- High contact force through inner contacts made in a high-strength copper alloy
- Watertight (IP67/IP68)
- Corrosion resistant
- Quick trimming tool for cable preparation
- Fully compatible with copper & aluminium cable







NM50V78N1

43FV78N1

716FV78N1

The connectors are designed according the standard interfaces as N, DIN 7-16 or 4.3-10. Contact components are silver or trimetal plated to minimize insertion loss and passive intermodulation products; mechanical parts are nickel plated for heavy-duty handling and best corrosion resistance. Watertightness is achieved by using silicone o-rings to resist in the toughest environmental conditions. For a cost effective, easy and reliable installation, special trimming tools are recommended.

SPECIFICATIONS

Connector type	N-male	N-female	4.3-10 male	4.3-10 female	7-16 male	7-16 female
Electrical specifications						
 Nominal impedance [Ω] 	50					
Reflection coefficient @ 3.0 GHz [dB]	≥35					
 Insulation resistance [GΩ] 	≥5				≥ 10	
 Test voltage (at sea level) [kV rms, 50Hz] 	2.5				4	
Working voltage (at sea level) [kV rms,50Hz]	1			2.7		
• Max. peak power [kW]	10 22,5*				40	
• Screening effectiveness up to 1 GHz [dB]	> 128 ≤ 1					
 Contact resistance (outer contact) [mΩ] Contact resistance (inner contact) [mΩ] 	≤1					
• PIM ratio (2 x 20 W carrier) [dBc]	≤ -155 (Typical -163)					
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Mechanical specifications						
Torque of coupling mechanism [Nm]	8		5 to 8		30	
Tensile strength of coupling mechanism [N]	400 500			700		
Cable retention [N] Machanical and warned (Nr of counlings)	> 1000 ≥ 500					
Mechanical endurance (Nr of couplings) Outer diameter [mm]	≥500					
• Length [mm]	62	57	57	56	53	52
• Weight [g]	164	153	171	160	170	160
Environmental specifications						
Temperature range	-40 °C to +85 °C (-40 °F to +185 °F)					
Degree of protection	IP67/IP68 (mated connectors)					
Climatic & moisture resistance test	acc. ANSI/SCTE 72 2002 R2007 (-40 °C / +60 °C @ 75% r.h.) for 2 weeks					
Corrosion resistance test	acc. IEC 60068-2-11-Test Ka					
 Vibration test 	acc. IEC 60068-2-6 (10 to 500 Hz @ 10 G)					
Materials						
Externals parts	Brass with passivated silver or trimetal or nickel plating					
Outer contact	Brass with passivated silver or trimetal plating					
Inner contact	Passivated silver plated high-strength copper alloy and brass					
Dielectric	TPX					
• O-rings	High quality silicone					
Cable dimensions [mm]						
Inner conductor inner diameter	8.26 to 8.46					
Outer conductor outer diameter	24.6 to 25.4					
 Jacket outer diameter 	27.8 to 28.2					
Order codes						
O-ring connector type	NM50V78N1	NF50V78N1	43MV78N1	43FV78N1	716MV78N1	716FV78N1
Special trimming tool			F-	-78		

^{* 4.3-10} interface according to IEC61169-54