

TECHNICAL DATA SHEET

50 ohm Connectors for RF Cables



Connector 1-1/4" for EC6-50-A (5328A) and EA6-50 (5327)

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
- O-ring sealing
- Fully compatible with copper & aluminium c







43FV114N1

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. The 1-1/4" connectors are compatible with standard 1-1/4" Eupen cables. For a cost effective, easy and reliable installation, special trimming tools are recommended.

SPECIFICATIONS

Connector type	N-male	N-female	4.3-10 female	7-16 male	7-16 female
Electrical specifications					
Nominal impedance [Ω] Reflection coefficient @ 3 GHz [dB] Insulation resistance [GΩ]	50 ≥ 35 ≥ 5 ≥ 10				
Test voltage (at sea level) [kV rms, 50Hz] Working voltage (at sea level) [kV rms,50Hz] May peak payor [kM]	2.5 1.0 10 15*			4 2.7 40	
 Max. peak power [kW] Screening effectiveness up to 1 GHz [dB] Contact resistance (outer contact) [mΩ] 	10		> 128 ≤ 1.0	2	10
 Contact resistance (inner contact) [mΩ] PIM ratio (2 x 20 W carrier) [dBc] 	≤ 1.0 ≤ -155 (Typical -163)				
Mechanical specifications					
Torque of coupling mechanism [Nm] Tensile strength of coupling mechanism [N] Cable retention [N]	8 400		5 to 8 500 > 1000	30 700	
Mechanical endurance (Nr of couplings)Outer diameter [mm]	≥ 500 48				
Length [mm] Weight [g]	66 312	71 300	71 300	61 310	61 312
Environmental specifications					
Temperature range	-40 °C to +85 °C (-40 °F to +185 °F)				
Degree of protection Climatic & moisture resistance test	IP67/IP68 (mated connectors) 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 Inner contact	Brass with passivated silver or trimetal plating Passivated silver plated high-strength copper alloy and brass				
• Dielectric	TPX				
• O-rings	High quality silicone				
Cable dimensions [mm]					
Inner conductor inner diameter	10.2 to 12.2				
Outer conductor outer diameter	35.3 to 36.6				
Jacket outer diameter	38.5 to 39.5				
Order codes					
O-ring connector typeSpecial trimming tool for standard cable	NM50V114N1 NF50V114N1 43FV114N1 716FV114N1 SPTC50AV114M – Blue color				
* ambient temperature 90 °C max.					