



NM50BL14X

43MB14X

Connector 1/4" Hiflex for EC 0-H

FEATURES

- Low reflection coefficient
- High contact force through inner contacts made in a high-strength copper alloy
- Watertight (IP67/IP68)
- Corrosion resistant
- Quick trimming tool
- Installation "screw it on and tighten it"
- No soldering
- Same preparation for straight and right angle connectors

The connectors are designed according the standard interfaces as N, DIN 7/16, 4.3-10 or Nex10. Contacts 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 simultaneously on the outer conductor and on the jacket by using a special silicone gasket. This watertight solution allows the use of our connectors in the toughest environmental conditions. For a cost effective, easy and reliable installation, special trimming tools are recommended.

XMB14X

SPECIFICATIONS

Connector type	N-male	N-female	7-16 male	7-16 male right angle	N-male right angle	4.3-10 male	Nex10 male	
Electrical specifications								
Nominal impedance [Ω]				50				
Reflection coefficient @ 3 GHz	≤ 0.02		≤ (0.03 ≤ 0.02		.02	
Insulation resistance [GΩ]	≥ 5		≥ 10		≥ 5			
Test voltage (at sea level) [kV rms, 50Hz]	2.5*		4*		2.5*			
Working voltage (at sea level) [kV rms,50Hz]	1		2.7		1	00 F	-	
Max. peak power [kW]	10		40		10	22.5	5	
Screening effectiveness up to 1 GHz [dB] Contact resistance (outer contact) $[m\Omega]$	> 128 ≤ 1							
Contact resistance (oner contact) $[\Pi\Omega]$	≤ 1 ≤ 1.5							
PIM ratio (2 x 20 W carrier) [dBc]	< -155		(Typical -163)		- ≤ -155 (Typical -163)			
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Mechanical specifications								
Torque of coupling mechanism [Nm]	8		30		8	4	1.5	
Tensile strength of coupling mechanism [N]	400		1000		250		00	
Cable retention [N]	> 400		> 600		> 250		> 500 ≥ 100	
Mechanical endurance (Nr of couplings) Outer diameter [mm]	22		≥ 500 32.5 39.5		22	≥ 24	18	
Length [mm]		2	53	66	58 x 31	50	57	
Weight [g]	72	80	136	182	88	79	67	
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				5			
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/PTFE TPX TPX / PTFE							
Gaskets	High quality silicone							
Cable dimensions [mm]								
Inner conductor outer diameter	1.85 to 1.95							
Outer conductor outer diameter	6.2 to 6.6							
Jacket outer diameter				7.0 to 8.0				
Order codes								
Connector type	NM50B14X	NF50B14X				40MD44V		
Connector type Special trimming tool	THREEPING		716MB14X	C50B14X – S		43MB14X	XMB14X	

at the end of the cable to a lower value (refer to the datasheet of the cable, where the peak voltage is given with a safety margin).