

Cat 6 - Connection Module

Overview

Ritchfield Category 6 connection module offers excellent protection against electromagnetic interference from external sources. These modules are specifically designed to minimize insertion loss and alien crosstalk, ensuring maximum flexibility and high performance. Additionally, the module is made with an integral cable strain relief for added durability.

⚡ Features

Compliant with :

- IEEE 802.af, IEEE 802.3at for PoE applications.
- ANSI/TIA/EIA 568AB.2.2001, ISO/IEC11801:2002
- EN50173-2 Category 6 standards

Standards :

- Flammability Rating - UL 94 V-0
- Safety Rating UL 1863



Design & Material

	Un-Shielded	Shielded
Color	White/Black	Silver (Metal)
Rj 45 Port	11.8 mm x 9.8 mm	
Angle	90 & 180 Degree	
Temperature - Storage	-40°C to +80°C	
Temperature - Operation	-10°C to +70°C	
Housing Material	High Impact, Flame-Retardant Plastic, UI 94 V-O	Zinc Alloy
IDC Type	Dual (110 Or Krone) Type	
IDC Wire Guage	22-26 AWG, Solid or Stranded	
Colour Coding	As per 568 A/B Standard	
Overall Shield	N/A	Fully Shielded Corrosion-Resistant Die-Cast Zinc Alloy Casing
Spring Wire	Phosphor Bronze Alloy	
IDC	Phosphor Bronze Alloy	
Conductor Termination	>200	>30
Insulation Diameter	0.7 - 1.6 mm	

Electrical Characteristics

	Un-Shielded	Shielded
Current rating	1.5 A	
Insulation Resistance	500M Ω min 100 Vdc	
Voltage Rating	230 V rms Max	
Dielectric Voltage	1000 Vdc or ac, 60Hz for 1 min (Contact-Contact)	
Plug/Jack Contact Resistance	20M Ω per contact	
Input / Output Resistance	20M Ω max	N/A
IDC Contact Resistance	< 5 M Ω max	<1 M Ω max

Mechanical & Transmission Characteristic

	Un-Shielded	Shielded
Insertion/Extraction Life	500 Cycles minium	750 Cycles Minium
Retention	133 N	
Propagation Delay	2.5 ns max./1-250 MHz	
Propagation Delay Skew	1.25 ns max./1-250 MHz	
Coupling Attenuation	35 dB @ 30 - 250 Mhz	

Ordering Information

Part Number	Product Description
RF1A-KJ6US09-<CC>	Cat 6 Un-Shielded RJ45 Connection Module, Dual IDC, 90 deg <Color>
RF1A-KJ6US18-<CC>	Cat 6 Un-Shielded RJ45 Connection Module, Dual IDC, 180 deg <Color>
RF1A-KJ6SH09-SV	Cat 6 Shielded RJ 45 Connection Module, Dual IDC, 90 deg Silver
RF1A-KJ6SH18-SV	Cat 6 Shielded RJ 45 Connection Module, Dual IDC, 180 deg Silver

CC = Color WH - White, BK - Black

