

Features and Benefits

The PowerCat 6 RJ45 Keystone Jack has been designed to be compatible with any products that accept the standard keystone profile. Suitable for high-speed data transmission, the PowerCat 6 Keystone Jack has been designed to exceed the highest electrical performance standards in the industry and has been independently tested and verified by ETL SEMKO for Category 6 component compliance.

- Standard Keystone profile
- Dual colour coding allows 568A/B wiring configuration
- RJ11 compatible

Compliant With

TIA/EIA-568-B.2-1, FCC Subpart F 68.5, ISO 60603-7, ISO 11801:2002, EN 50173:2002

Approvals

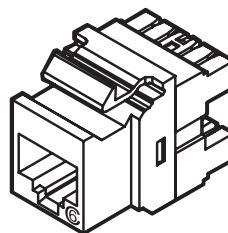
UL-1863 (Pending)
 CSA (Pending)
 ETL Verified for Category 6 Component Compliance

Technical Information
Mechanical Characteristics
Jack Connector

Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
 Operating Life: Minimum 750 insertion cycles
 Contact Material: Copper Alloy
 Contact Plating: 1.25 micrometres Au/Ni
 Contact Force: 100g minimum
 Plug Retention Force: 5kg.

IDC Connector

Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
 Operating Life: Minimum 20 reterminations
 Contact Material: Copper Alloy
 IDC Contact Plating: Tin/Lead Plate
 Contact Force: 100g minimum
 Wire Accommodation: 22-24 AWG solid


Keystone Jack

Dimensions:
 23mm x 18mm x 30.6mm
 Shipping Weight: 28g.

Electrical Characteristics

Interface Resistance: 20mΩ
 Initial Contact Resistance: 2.5mΩ
 Insulation Resistance: >100MΩ

Termination Tool: 110



Order No.	Description
KSJ-00033-**	Keystone Jack Category 6 8W 568A/B

Insert colour code in place of ** in part number when ordering DataGate Plus jack or accessories:
 10 = Almond, 02 = White, 04 = Black, 05 = Ivory, 08 = Light Grey, RD = Red, BL = Blue, GR = Green, YL = Yellow,
 RG = Orange, PP = Purple

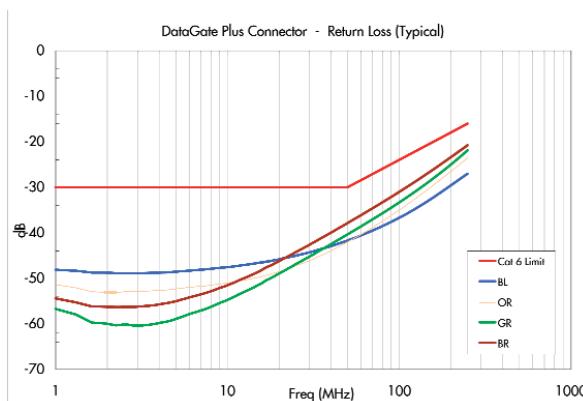
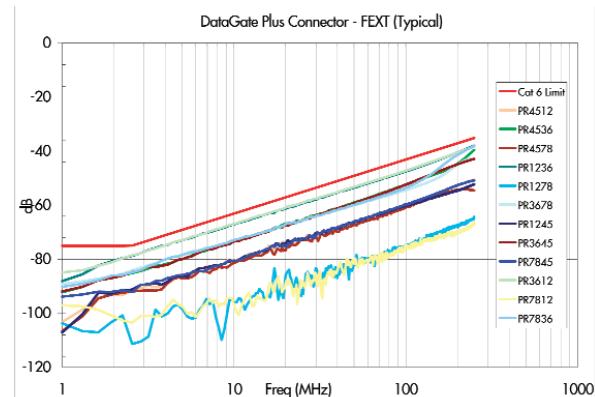
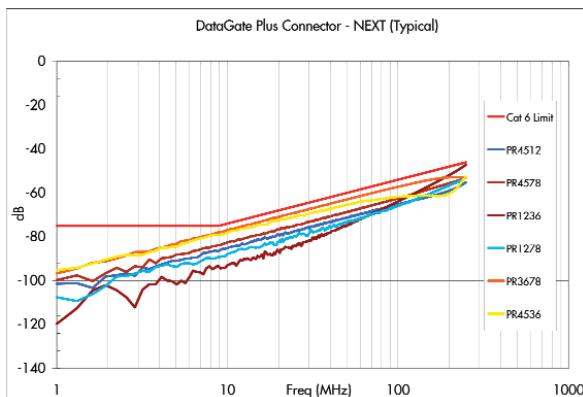

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Frequency (MHz)	DataGate Plus Worst Case (dB)							
	NEXT		FEXT		Return Loss		Insertion Loss	
	SPEC	MOLEX	SPEC	MOLEX	SPEC	MOLEX	SPEC	MOLEX
1	-75.0	-95.3	-75.0	-84.9	-30.0	-48.1	-0.10	-0.02
4	-75.0	-85.3	-71.1	-75.0	-30.0	-48.8	-0.10	-0.02
8	-75.0	-79.1	-65.0	-68.9	-30.0	-47.9	-0.10	-0.02
10	-56.1	-77.2	-63.1	-67.1	-30.0	-46.7	-0.10	-0.02
16	-69.9	-73.0	-59.0	-62.9	-30.0	-43.1	-0.10	-0.02
20	-68.0	-70.8	-57.1	-60.8	-30.0	-41.3	-0.10	-0.02
25	-66.0	-68.9	-55.1	-59.1	-30.0	-39.3	-0.10	-0.02
31.25	-64.1	-67.2	-53.2	-57.2	-30.0	-37.4	-0.11	-0.02
62.5	-58.1	-61.1	-47.2	-51.4	-28.0	-31.2	-0.16	-0.03
100	-54.0	-57.3	-43.1	-47.2	-24.0	-26.9	-0.20	0.05
200	-48.0	-50.7	-37.1	-40.5	-18.0	-20.2	-0.28	-0.07
250	-46.0	-48.7	-35.1	-38.0	-16.0	-18.2	-0.32	-0.09

NOTE:

Performance values shown in dB.

For NEXT, FEXT and Return Loss: the higher the negative value the better the performance (e.g. -73.0 better than -69.9)

For Insertion Loss: the lower the negative value the better the performance (e.g. -0.02 better than -0.10)

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