molex®

DataGate Plus Jack
Category 6

Features and Benefits

The DataGate Plus jack is designed to maintain clean secure connections. The RJ-45 jack features a patented 'spring-loaded shutter' which protects it from dust and contaminants as well as provides tactile feedback –the spring-loaded shutter pops out an improperly seated patch cord–all with single-handed plug-in and removal. DataGate Plus jacks utilize patented IDC V-shaped contacts that flex not fatigue when terminated. The DataGate Plus jack is engineered for use across a broad range of Molex Premise Networks products.

- Patented Spring-Loaded Shutter:
  - –prevents incomplete mating
  - –protects from dust and contaminants
- Patented IDC V-shaped contacts that flex not fatigue when terminated
- Features pointed IDC towers to speed termination and enhance cable retention
- Dual color-coding allows for 568 A/B wiring configuration
- Can be terminated using industry standard punch-down tools
- RJ-11 compatible
- Molded category identification on jack face as well as optional port identification icons
- USOC Wiring Sequences Available

Commercial Standards:

TIA/EIA-568-B.2-1 Component Compliant
FCC Subpart F 68.5 Compliant
IEC-603-7 Compliant
ISO 11801 Class E Compliant
ETL Verified for Category 6 Component Compliance
    UL-1863
    CSA C22.2

Mechanical Characteristics

Jack Connector

Plastic Housing:	Thermoplastic UL94V-0 rated or equivalent
Operating Life:	Minimum 750 insertion cycles
Contact Material:	Copper Alloy
Contact Plating:	50µ" Gold/100µ" Nickel
Contact Force:	100g minimum
Plug Retention Force:	11 lbf minimum

IDC Connector

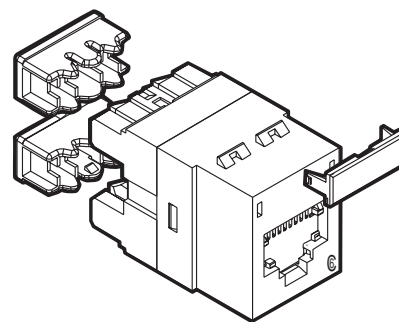|	
Plastic Housing:	Thermoplastic UL94V-0 rated or equivalent
Operating Life:	Minimum 20 reterminations
Contact Material:	Copper Alloy
IDC Contact Plating:	Tin/Lead Plate
Wire Accommodation:	22-24 AWG solid

Electrical Characteristics

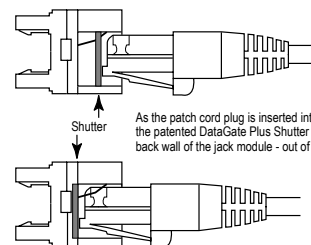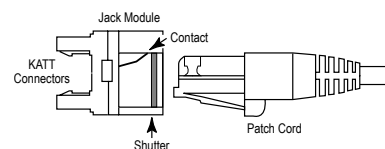|	
Interface Resistance:	20 milliohms
Initial Contact Resistance:	2.5 milliohms
Insulation Resistance:	>100 Megaohms

Parts List:

- DataGate Plus Jack with Stuffer Cap

DataGate Plus Jack with icon demonstration

Dimensions:
23.9mm x 17.8mm x 32.3mm
(.94"H x .70"W x 1.27"D)
Shipping Weight: 14g (.5 oz.)

DataGate Plus Shutter Operation

Jack Module
Contact
KATT Connectors
Shutter
Patch Cord

As the patch cord plug is inserted into jack opening, the patented DataGate Plus Shutter slides to the back wall of the jack module - out of sight.

Shutter

ORDERING INFORMATION

Order No.	Description
KSJ-00018-**	DataGate Plus Jack Category 6 8W 568A/B
Accessories:	
CSP-00021-**	Blank 6-Pack Icons (Bag of 10)
CSP-00022-**	Data 6-Pack Icons (Bag of 10)
CSP-00023-**	Voice 6-Pack Icons (Bag of 10)

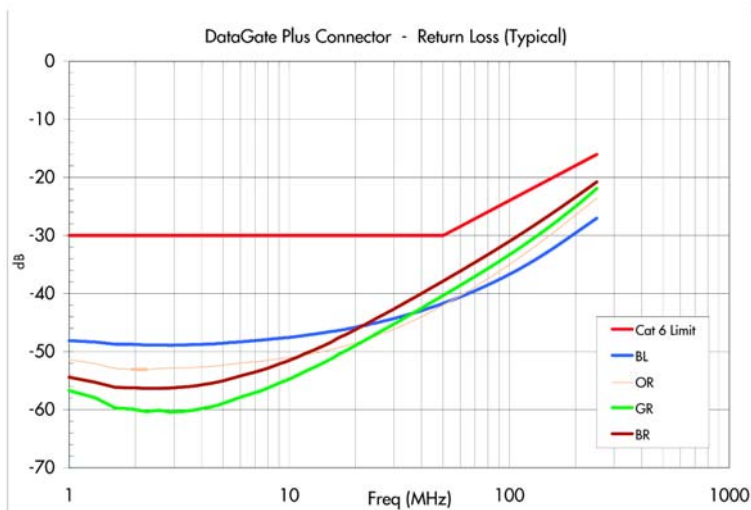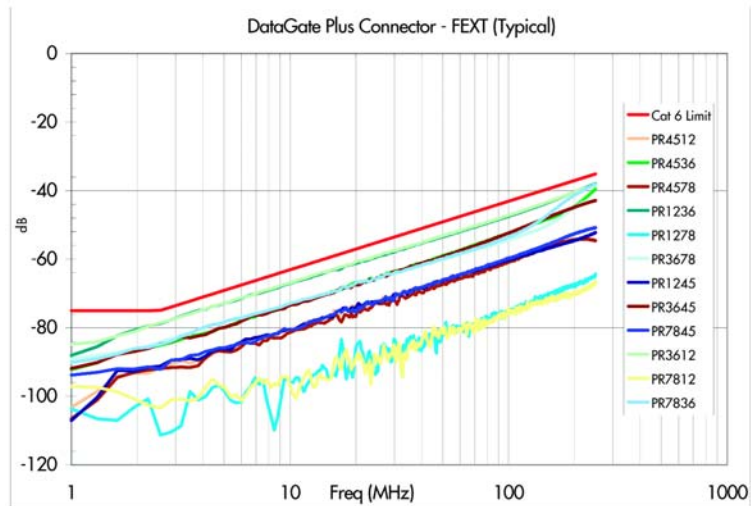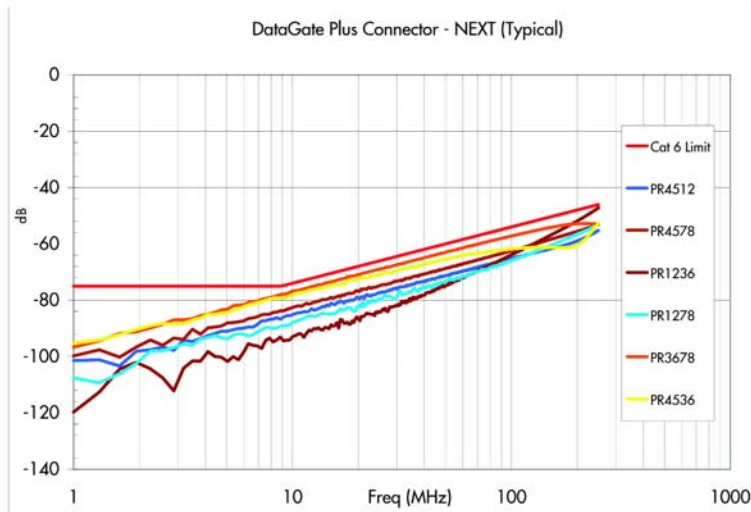Insert color code in place of ** in part number when ordering DataGate Plus jack or Accessories:
01 = Almond, 02 = White, 04 = Black, 05 = Ivory, 08 = Light Grey, RD = Red, BL = Blue, GR = Green, YL = Yellow, RG = Orange, PP = Purple

ETL VERIFIED®

molex® **DataGate Plus Jack Category 6**

DataGate Plus Connector - NEXT (Typical)

DataGate Plus Connector - FEXT (Typical)

DataGate Plus Connector - Return Loss (Typical)

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DataGate Plus Worst Case (dB)

Frequency (MHz)	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)