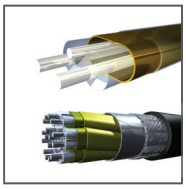
molex®

Low loss high performance twinax cables for 14, 25, 40+ Gbps data rates.

Data/Computing Telecom/Networking

Discrete, Bundled and Ribbon Twinax Cable

Temp-Flex® Discrete, Bundled and Ribbon Twinax 14 Gbps



Discrete Series 100068
Bundled Series 100062

APPLICATION

Hubs
Servers
Storage Systems
Routers
Switches

Industry Standards:

Gigabit Ethernet
Fibre Channel
SAS
SATA
Ethernet
Camera Link
PCI Express
InfiniBand

KEY FEATURES

Data rates: 6 to 14 Gbps

Industry leading Insertion Loss

Suckout free Insertion Loss to ~13 GHz (26 Gbps)

Flexible

Tight intra-pair skew: <10 ps/meter *(based on 5 meter test length)*

Impedance: 85, 90 and 100 ohms ± 5 ohms

Special Bundled Feature: Insertion Loss variation within ± 5% of nominal

CONSTRUCTION

Signal Conductor Size: 34 to 24 AWG *(30 AWG Typ.)*

Solid conductors

Signal Conductor Type: Silver plated copper *(SPC)*

Signal Insulation: Polyolefin

Inner Shield: Aluminum mylar with drain wire

Discrete Jacket Material: Fusible polyester

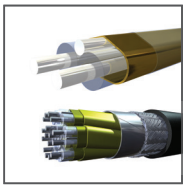
Bundled Construction

Outer Shield: Foil and tin plated copper braid

Bundled Jacket Material: Halogen free polyolefin

Ribbon Twinax Jacket Material: PVDF, THV

Temp-Flex® Discrete, Bundled Twinax 25 Gbps



Discrete Series 100068
Bundled Series 100062

Hubs
Servers
Storage Systems
Routers
Switches

Industry Standards:

Gigabit Ethernet
Fibre Channel
SAS
SATA
Ethernet
Camera Link
PCI Express
InfiniBand

Suckout free Insertion Loss to ~20 GHz (40 Gbps)

Industry leading Insertion Loss

Flexible

Tight intra-pair skew: <10 ps/meter *(based on 5 meter test length)*

Impedance: 85, 90 and 100 ohms ± 5 ohms

Special Bundled Feature: Insertion Loss variation within ± 5% of nominal

Signal Conductor Size: 34 to 24 AWG *(30 AWG Typ.)*

Solid conductors

Signal Conductor Type: Silver plated copper *(SPC)*

Signal Insulation: Polyolefin, Fluoropolymer

Inner Shield: Helically wrapped aluminum mylar

Discrete Jacket Material: Fusible polyester

Bundled Construction Outer Shield: Foil and tin plated copper braid

Bundled Jacket Material: Halogen-free Polyolefin

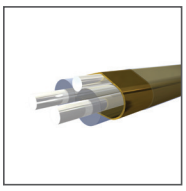
Data/Computing Telecom/Networking

Discrete, Bundled and Ribbon Twinax Cable

molex®

Low loss high performance twinax cables for 14, 25, 40+ Gbps data rates.

Temp-Flex® Discrete Twinax 40+ Gbps



Discrete Series 100068

APPLICATION

Hubs

Servers

Storage Systems

Routers

Switches

Industry Standards:

Gigabit Ethernet

Fibre Channel

SATA

Ethernet

Camera Link

PCI Express

Infiniband

SAS

KEY FEATURES

Suckout Free Insertion Loss to 32 GHz *(64 Gbps) (design dependant)*

Industry Leading Insertion Loss

Flexible

Tight Intra-Pair Skew< 10 ps/ meter *(based on 5 meter test length)*

Impedance 85, 90,100Ω ± 5Ω

CONSTRUCTION

Signal Conductor Size: 32 to 24 AWG *(30 AWG Typ.)*

Solid Conductors

Signal Conductor Type: Silver plated copper *(SPC)*

Signal Insulation: Polyolefin or Fluoropolymer

Inner Shield: Aluminum mylar with drain wire

Jacket Material: Fusible polyester

Temp-Flex products have applications in a variety of industries including:

Aerospace and Defense

Alternative Energy Source

Automotive

Commercial Vehicle

Industrial Automation

Medical

Test and Measurement

Data/Computing and Telecommunications/Networking

www.molex.com/tempflex

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