

Temp-Flex TwinMax High-Temp/Low-Loss Twinax Cable

molex

Temp-Flex TwinMax High-Temperature, Low-Loss Twinax Cables offer a balanced transmission line in multiple impedance ranges for use in data center and telecommunication applications needing 10, 12 and 28 Gbps data rates.

Inline monitoring of diameter, concentricity and capacitance control. Real-time, closed-loop control systems for extrusion, taping and cabling. In-process statistical monitoring

Offers proprietary processes and precision manufacturing

Features and Advantages

Tight bend radius
High bandwidth
Improved signal integrity performance

Provides superior overall performance

Cables capable of transmitting 10, 12 and 28 Gbps available

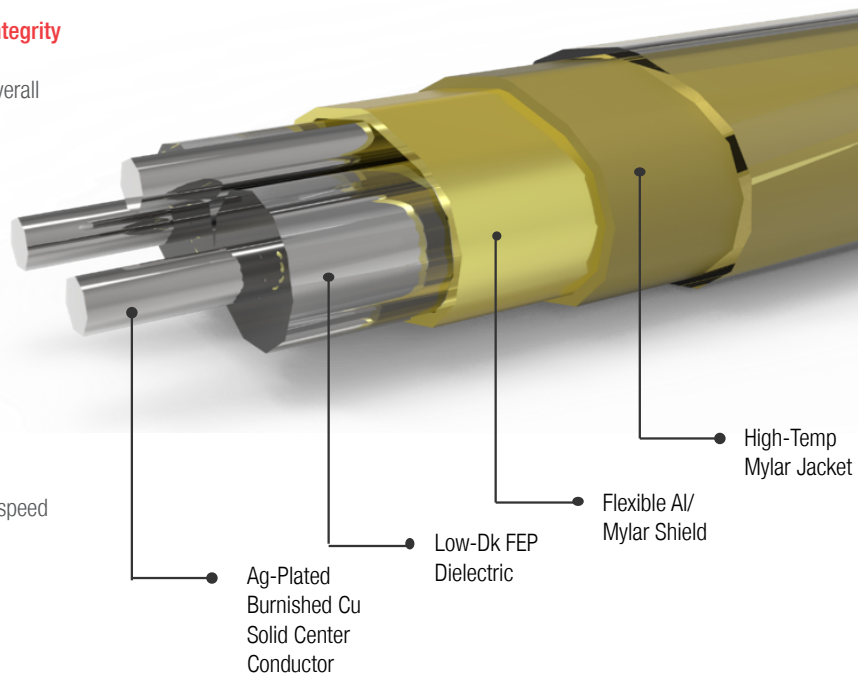
Meets a range of signal transmission needs

85-, 90- and 100-Ohm versions available

Offers twinax cables for a range of applications

Available as complete assemblies with I/O and enterprise connectors

Delivers end-to-end high-speed solutions



Ag-Plated Burnished Cu Solid Center Conductor

Low-Dk FEP Dielectric

Flexible Al/ Mylar Shield

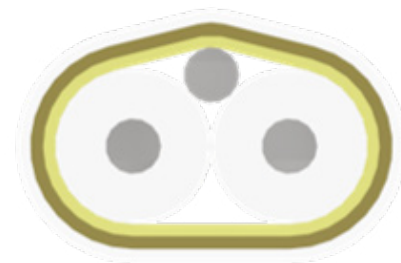
High-Temp Mylar Jacket

High-temperature, thermally and mechanically stable dielectric (-20 to +105°C)

Withstands soldering temperatures to provide ease of termination

Insertion loss remains stable under high temperatures

Delivers maximum reliability



Applications

Telecommunications/Networking

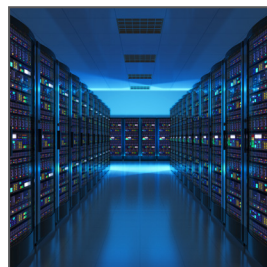
- Servers
- Backplanes

Data Center Solutions

- Internal servers
- Backplane

Automotive

- Infotainment
- Self-driving vehicles



Data Center

UL recognized

Meets UL-style standards

Temp-Flex TwinMax High-Temp/Low-Loss Twinax Cable



Specifications

REFERENCE INFORMATION

Packaging: Spool, Continuous Length
UL File No.: E61522
CSA File No.: FT1 Approved
Use: Internal Wiring
EU ELV: Compliant
EU RoHS: Compliant
EU RoHS Phthalates: Not Contained
China RoHS: Compliant
REACH SVHC: Not Contained
Halogen Free: No, Contains Fluoropolymer
Low Halogen: Yes

ELECTRICAL

Voltage (max.): 30V AC
Dielectric Withstanding Voltage: 1500V DC
Impedance: 100-Ohm, 90-Ohm and 85-Ohm Options
Skew: <10ps/m
Propagation Delay: 4.8ns/m

MECHANICAL

Minimum Bend: 5x OD – Minor Axis

PHYSICAL

Signal Wire: Solid Copper, ETP
Signal plating: Silver
Ground Wire: Solid Copper, ETP
Ground Wire Plating: Silver
Shield: Aluminum
Operating Temperature: -20 to +105°C

Ordering Information

Series No.	Impedance	AWG
100068-0044	85 Ohms \pm 5	34
100068-0080		32
100068-0085	90 Ohms \pm 5	28
100068-0115		30
100068-0046	100 Ohms \pm 5	34
100068-0071		32
100068-0079		34
100068-0107		30
100068-0108		28

Custom Product	Description
Contact Molex	Temp-Flex TwinMax High-Temp/Low-Loss Twin-Axial Cables

www.molex.com/link/tempflexTwinax.html

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