micronor sensors

MR398 Simplex and Duplex Fiber Optic Cable Assemblies
For Use With Micronor MR330/MR340/MR361/MR380 Sensors LInks

Micronor's MR398 series fiber optic cable assemblies offer a turn-key solution for deploying Micronor sensor products in a broad range of environments. We offer cable options depending on the nature of the application:

- T1X series are simplex, commercial-grade jumper cables for use with MR361, E-Stops and Microswitches applicationss
- T2X series are duplex, commercial-grade zip-style jumper cables for indoor and benign environments.
- H2X series are ruggedized , indoor/outdoor/MilTac grade cables for IP-LC links

The Polyurethane (PUR) jacketed H2X cable options offer exceptional abrasion, cut, chemical, and UV resistance. These cables can be deployed in traditional cable tracks and raceways but are rugged enough to be clamped directly to equipment surfaces and used outdoors. Each of Micronor's MR398 series fiber optic cable assemblies are crush resistant, flexible, resilient and offer exceptional mechanical protection for the internal fibers.

MR398-T1x/T2x
Commercial

MR398-H2x
Enivronmental

SENKO IP-LC Plus
Environmental Connector

Specifications

Fiber Characteristics			
Fiber Type	Multimode OM1	Multimode OM3	Single Mode OS1
Core/Cladding/NA	62.5/125µm GI, NA= 0.275	50/125µm GI, NA=0.20	9 /125 µm
Attenuation	3.5 dB/km at 850nm, 1.5 dB/km at 1310nm	3 dB/km at 850nm, 1 dB/km at 1310nm	1 dB/km at 1310nm
Cable Attributes	**MR398-T1x**	**MR398-T2x**	**MR398-H2x**
Applications	Indoor	Indoor	Indoor/Outdoor/MilTac
Cable Diameter	Ø1.8 mm	2xØ1.8 mm, ZIP style	Ø6.5 mm
Jacket Material	PVC	PVC	UV-Resistant Polyurethane
Flame Retardance	OFNR Riser Rated	OFNR Riser Rated	None
Chemical Resistance	Minimum Chemical Resistance	Minimum Chemical Resistant	Petrochemical & Severe Chemical Resistant
Max. Tensile Load	Installation: 100 N Operation: 50 N	Installation: 100 N Operation: 50 N	Installation: 2200 N Operation: 550 N
Min. Bend Radius	Installation: 5.0 cm Operation: 3.0 cm	Installation: 5.0 cm Operation: 3.0 cm	Installation: 10.4cm Operation: 5.2 cm
Cable Weight	5.0 kg/km	10.0 kg/km	31.0 kg/km
Environmental			
Cable Only	-20°C to +70°C	-20°C to +70°C	-55°C to +85°C

Ordering Info Commercial Grade Simplex/Duplex-LC Cable Assembly

M R 3 9 8 - T 2 6 - C C 0 0 3

Fiber/Cable

T15	Simplex, OM3 50/125 MMF
T16	Simplex, OM1 62.5/125 MMF
T19	Simplex, OS1 9/125 SMF
T25	Duplex, OM3 50/125 MMF, ZIP style
T26	Duplex, OM1 62.5/125 MMF, ZIP
T29	Duplex, OS1 9/125 SMF, ZIP

Connector

AA	Simplex or Dual ST (depends on cable option)
CC	Duplex-LC to Duplex-LC
FF	(Simplex LC to Simplex LC, for T1x Cable)

Note: Simplex- or Duplex-LC connectors are not Environmentally Rated connectors. IP-LC connections are recommended where ingress protection is required

Length

0R5	0.5m
001	1m
003	3m
005	5m
010	10m
050	50m
100	100m

NOTE: Custom lengths on request

Stock Jumper Cables

Short Jumpers

MR398-T16-FF0R5	Simplex-LC to Simplex-LC, OM1, 0.5m
MR398-T26-CC0R5	Duplex-LC-to Duplex-LC, OM1, 0.5m

Regular Jumpers

MR398-T26-CC001	Duplex-LC to Duplex-LC, OM1, 1m
MR398-T26-CC003	Duplex-LC to Duplex-LC, OM1, 3m
MR398-T26-CC005	Duplex-LC to Duplex-LC, OM1, 5m
MR398-T26-CC010	Duplex-LC to Duplex-LC, OM1, 10m
MR398-T29-CC001	Duplex-LC to Duplex-LC, OS1, 1m
MR398-T29-CC003	Duplex-LC to Duplex-LC, OS1, 3m
MR398-T29-CC005	Duplex-LC to Duplex-LC, OS1, 5m
MR398-T29-CC010	Duplex-LC to Duplex-LC, OS1, 10m

Ordering Info Harsh Environment IP-LC PLUS Duplex Cable Assembly

M R 3 9 8 - H 2 6 - C D 0 0 3

Fiber/Cable

H26	Harsh Environment Mil/Tac Grade 62.5/125 MMF, OM1 Duplex Cable
H29	Harsh Environment Mil/Tac Grade 9/125 SMF, OS1 Duplex Cable

Connector

CD	Duplex-LC to IP-LC Plug
DD	IP-LC Plug to IP-LC Plug

Length

003	3m
005	5m
010	10m
050	50m
100	100m

NOTE: Custom lengths on request

Stock Jumper Cables

MR398-H26-CD003	IP-LC to Duplex-LC, OM1, 3m
MR398-H26-DD003	IP-LC to IP-LC, OM1, 3m
MR398-H26-DD015	IP-LC to IP-LC, OM1, 15m
MR398-H29-CD003	IP-LC to Duplex-LC, OS1, 3m
MR398-H29-DD003	IP-LC to IP-LC, OS1, 3m

Ordering Info Interconnection Accessories

M R 3 2 0 A
Simplex ST to ST Bulkhead Receptacle

M R 3 2 0 C
Duplex LC to Duplex LC Bulkhead Receptacle

M R 3 2 0 D
IP-LC to Duplex-LC Bulkhead Receptacle; includes gasket, nut and dust cap on leash.

M R 3 2 0 D - I N L I N E
IP-LC to IP-LC Inline Bulkhead Receptacle; includes gasket, nut and dust cap on leash.
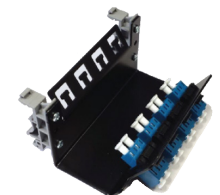
MR398-DIN4-AA DIN Rail Mount ST Patch Panel
For up to 4 Simplex ST connections, such as for multi MR361 FO Encoder Extenders or Multiple FOTEMP TS sensor links

MR398-DIN4-CC DIN Rail Duplex-LC Patch Panel
For up to 4 Duplex-LC connections, such as Multifiber Trunk Cable to Multiple Controllers

MR398-JBCC-XX Junction Boxes
For environmentally-protected interconnections where:
CC=Duplex-LC to Duplex-LC, **CD**=Duplex-LC to IP-LC, and **DD**=IP-LC to IP-LC