

Our End-to-End Expertise.
Your End-to-End Solution.



Belden FX Systems are available in a variety of performance levels to meet the value and price point for a wide variety of applications. Each system is uniquely color-coded for easy identification in the field.

The following is a recap of the five Belden FX Systems that are offered today:

Belden System	FX OM1	FX OM2	FX OM3	FX OM4	FX SM A1
Standard	OM1 - 62.5 μ m Multimode Non-Bend Insensitive TIA-492AAAA ANSI/TIA-568-D.3 ISO/IEC 11801	OM2 - 50 μ m Multimode Bend Insensitive TIA-492AAAB ANSI/TIA-568-D.3 ISO/IEC 11801	OM3 - 50 μ m Multimode Bend Insensitive TIA-492AAAC ANSI/TIA-568-D.3 ISO/IEC 11801	OM4 - 50 μ m Multimode Bend Insensitive TIA-492AAD ANSI/TIA-568-D.3 ISO/IEC 11801	OS2 - 9 μ m Singlemode Bend Insensitive TIA-492CAAB ANSI/TIA-568-D.3 ISO/IEC 11801 ITU G.657.A1
Ethernet Applications	Legacy 1G up to 275 m	Not Recommended for New Designs	1G up to 550 m 10G up to 300m 40G/100G up to 100m	10G up to 400 m 40G/100G up to 150 m	10G up to 30/40 km 40G/100G up to 10/40 km
Fibre Channel Applications	Legacy 1G up to 300 m	Not Recommended for New Designs	4G up to 380 m 8G up to 300 m 16G up to 100 m	16G up to 125 m	4/8/16G up to 10 km
Fiber Cable Assemblies Jacket Color	Orange	Orange	Aqua	Erika Violet Aqua (optional)*	Yellow
Connector and Adaptor Color	Beige	Black	Aqua	Erika Violet Aqua (optional)*	Blue Green (APC)
Pre-Term Connector Loss	MPO-12 0.5 dB LC/SC/ST 0.25dB	MPO-12 0.5 dB LC/SC/ST 0.25dB	MPO-12 0.35 dB LC/SC/ST 0.25dB	MPO-12 0.2 dB LC/SC/ST 0.15dB	MPO-12 0.75 dB LC/SC/ST 0.35dB
Fiber Cable Loss	Tight Buffer (900 μ m) 3.5 dB @ 850 nm 1.2 dB @ 1300 nm Enterprise Loose Tube (250 μ m) 3.5 dB @ 850 nm 1.2 dB @ 1300nm	Tight Buffer (900 μ m) 3.5 dB @ 850 nm 1.2 dB @ 1300 nm Enterprise Loose Tube (250 μ m) 3.5 dB @ 850 nm 1.2 dB @ 1300nm	Tight Buffer (900 μ m) 3.25 dB @ 850 nm 1.2 dB @ 1300 nm Enterprise Loose Tube (250 μ m) 3.25 dB @ 850 nm 1.0 dB @ 1300nm	Tight Buffer (900 μ m) 3.0 dB @ 850 nm 1.0 dB @ 1300 nm Enterprise Loose Tube (250 μ m) 3.0 dB @ 850 nm 1.0 dB @ 1300nm	Tight Buffer (900 μ m) 0.5 dB @ 1310nm 0.5 dB @ 1550 nm Enterprise Loose Tube (250 μ m) 0.5 dB @ 1310nm 0.5 dB @ 1550 nm
Min. EMB (MHz-km)	N/A	N/A	2000 @ 850 nm	4700 @ 850 nm	N/A
Min. OFL Bandwidth (MHz-km)	200 @ 850 nm 500 @ 1300 nm	500 @ 850 nm 500 @1300 nm	1500 @ 850 nm 500 @1300 nm	3500 @ 850 nm 500 @1300 nm	N/A

* Belden Standard OM4 products use Erika Violet cable with Erika Violet connectors. Aqua OM4 cable and connectors are available as Tailored products by selecting OM4 fiber with the Aqua color code. Other combinations of fiber type and color will continue to use the default connector colors with the specified cable jacket color.