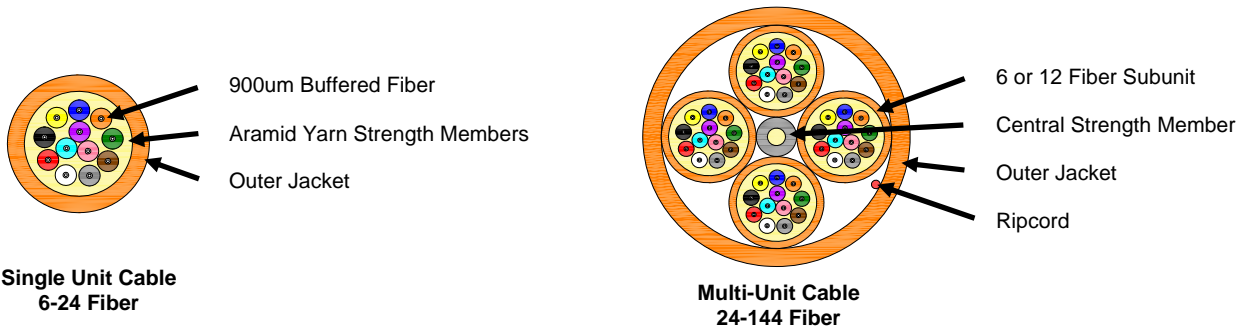


Fiber Optic Backbone Distribution Cables



Description:

TE Connectivity backbone distribution cables are designed for routing between communications closets, as intra-building backbone cables. Distribution cables are all-dielectric and consist of 900µm tight buffered fibers surrounded by aramid yarn strength members and a flexible thermoplastic outer jacket. Twenty-four, and higher fiber count constructions have two or more subunits and a central strength member (24 fiber side by side constructions do not have a central strength member). The cables are available in Riser and Plenum constructions with bend insensitive single-mode, 62.5/125 µm OM1, 50/125 µm OM2, 50/125 µm OM3, or 50/125 µm OM4 fiber. All fiber types other than OM1 are bend insensitive. Standard jacket colors are orange for 62.5/125 µm OM1 and 50/125 µm OM2, aqua for 50/125 µm OM3 and 50/125 µm OM4, and yellow for single-mode BIF. Other jacket colors are available upon request.

Standards Compliance:

TE Connectivity cables are designed and tested to conform to the fiber and cable performance requirements of TIA 568, ISO 11801, Telcordia GR-409-CORE and ICEA-596 Standards. All cables have UL or ETL fire safety listings to either OFNR (UL-1666/CSA FT4) or OFNP (NFPA-262/UL 910/CSA FT6).

Cable Print:


Cables will be marked every two feet with:

TE CONNECTIVITY <fiber count> <fiber type> <flame rating> MM/YY SO<shop order number> XXXXX FEET
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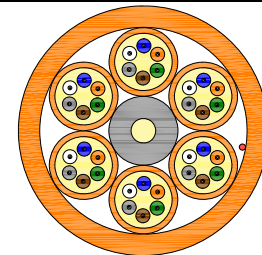
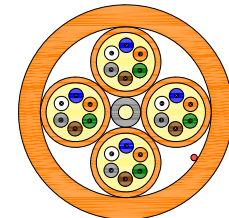
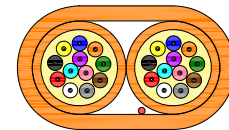
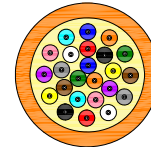
Part Numbers:

Fiber Count	Units X Fibers/Unit	Flame Rating	Fiber Type	Jacket Color	Part Number	
6	1 X 6	Riser	62.5/125 μm OM1	Orange	1-1553307-1	
			50/125 μm OM2	Orange	1-1553307-2	
			50/125 μm OM3	Aqua	3-1553307-9	
			50/125 μm OM4	Aqua	4-1553307-9	
			Single-mode BIF	Yellow	7-1553307-3	
			Plenum	Orange	1-1553308-1	
				Green	2-1553308-1	
				Red	5-1553308-1	
				Black	6-1553308-1	
				Yellow	7-1553308-1	
				Violet	8-1553308-1	
				Orange	1-1553308-2	
		Blue		1553308-2		
		Brown		3-1553308-2		
		Slate		4-1553308-2		
		Red		5-1553308-2		
		Yellow		7-1553308-2		
		Violet	8-1553308-2			
		Rose	9-1553308-2			
		Aqua	1-1553308-9			
		Aqua	3-1553308-9			
		50/125 μm OM3	Orange	1-1553308-4		
		Red	5-1553308-4			
		50/125 μm OM4	Aqua	4-1553308-9		
Yellow	7-1553308-3					
Single-mode BIF	Slate	4-1553308-3				
White	2-1553308-8					
8	1 X 8	Riser	62.5/125 μm OM1	Orange	1-1553309-1	
			50/125 μm OM2	Orange	1-1553309-2	
			50/125 μm OM3	Aqua	3-1553309-9	
			50/125 μm OM3	Orange	1-1553309-4	
			50/125 μm OM4	Aqua	4-1553309-9	
			Single-mode BIF	Yellow	7-1553309-3	
			Plenum	62.5/125 μm OM1	Orange	1-1553310-1
				50/125 μm OM2	Orange	1-1553310-2
		Aqua		3-1553310-9		
		50/125 μm OM3		Green	2-1553310-4	
		Yellow		7-1553310-4		
		50/125 μm OM4		Aqua	4-1553310-9	
		Single-mode BIF		Yellow	7-1553310-3	

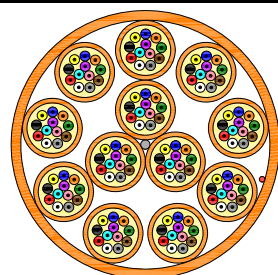
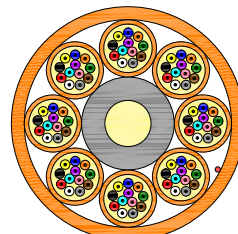
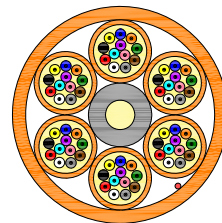
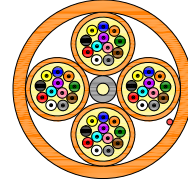


Fiber Count	Units X Fibers/Unit	Flame Rating	Fiber Type	Jacket Color	Part Number
12	1 X12	Riser	62.5/125 µm OM1	Orange	1-1553311-1
			50/125 µm OM2	Orange	1-1553311-2
			50/125 µm OM3	Aqua	3-1553311-9
				Blue	1553311-4
			50/125 µm OM4	Aqua	4-1553311-9
			Single-mode BIF	Yellow	7-1553311-3
			62.5/125 µm OM1	Orange	1-1553312-1
				Orange	1-1553312-2
				Blue	1553312-2
				Brown	3-1553312-2
				Slate	4-1553312-2
				Red	5-1553312-2
		50/125 µm OM2	Yellow	7-1553312-2	
			Violet	8-1553312-2	
			Rose	9-1553312-2	
			Aqua	1-1553312-9	
			Aqua	3-1553312-9	
			Blue	1553312-4	
		50/125 µm OM3	Red	5-1553312-4	
			Aqua	4-1553312-9	
			50/125 µm OM4	Orange	1-1553312-5
				Black	6-1553312-5
				Yellow	7-1553312-3
			Single-mode BIF	Slate	4-1553312-3
Red	5-1553312-3				
Black	6-1553312-3				
					









Fiber Count	Units X Fibers/Unit	Flame Rating	Fiber Type	Jacket Color	Part Number
24	1 X24	Riser	62.5/125 μm OM1	Orange	1-1553313-1
			50/125 μm OM2	Orange	1-1553313-2
			50/125 μm OM3	Aqua	3-1553313-9
			50/125 μm OM4	Aqua	4-1553313-9
			Single-mode BIF	Yellow	7-1553313-3
		Plenum	62.5/125 μm OM1	Orange	1-1553314-1
			50/125 μm OM2	Orange	1-1553314-2
				Aqua	3-1553314-9
			50/125 μm OM3	Orange	1-1553314-4
				Green	2-1553314-4
				Red	5-1553314-4
				Aqua	4-1553314-9
				Orange	1-1553314-5
				Brown	3-1553314-5
				Red	5-1553314-5
	Black	6-1553314-5			
	Yellow	7-1553314-5			
	Violet	8-1553314-5			
	Single-mode BIF	Yellow	7-1553314-3		
24	2 X12	Riser	62.5/125 μm OM1	Orange	1-1553315-1
			50/125 μm OM2	Orange	1-1553315-2
				Aqua	3-1553315-9
			50/125 μm OM3	Orange	1-1553315-4
			50/125 μm OM4	Aqua	4-1553315-9
		Plenum	Single-mode BIF	Yellow	7-1553315-3
			62.5/125 μm OM1	Orange	1-1553316-1
			50/125 μm OM2	Orange	1-1553316-2
			50/125 μm OM3	Aqua	3-1553316-9
			50/125 μm OM4	Aqua	4-1553316-9
	Single-mode BIF	Yellow	7-1553316-3		
24	4 X6	Riser	62.5/125 μm OM1	Orange	1-1553317-1
			50/125 μm OM2	Orange	1-1553317-2
				Aqua	3-1553317-9
			50/125 μm OM3	Orange	1-1553317-4
			50/125 μm OM4	Aqua	4-1553317-9
		Plenum	Single-mode BIF	Yellow	7-1553317-3
			62.5/125 μm OM1	Orange	1-1553318-1
			50/125 μm OM2	Orange	1-1553318-2
			50/125 μm OM3	Aqua	3-1553318-9
			50/125 μm OM4	Aqua	4-1553318-9
	Single-mode BIF	Yellow	7-1553318-3		
36	6 X6	Riser	62.5/125 μm OM1	Orange	1-1553319-1
			50/125 μm OM2	Orange	1-1553319-2
			50/125 μm OM3	Aqua	3-1553319-9
			50/125 μm OM4	Aqua	4-1553319-9
			Single-mode BIF	Yellow	7-1553319-3
		Plenum	62.5/125 μm OM1	Orange	1-1553320-1
			50/125 μm OM2	Orange	1-1553320-2
			50/125 μm OM3	Aqua	3-1553320-9
			50/125 μm OM4	Aqua	4-1553320-9
			Single-mode BIF	Yellow	7-1553320-3



Fiber Count	Units X Fibers/Unit	Flame Rating	Fiber Type	Jacket Color	Part Number	
48	4 X12	Riser	62.5/125 μm OM1	Orange	1-1553321-1	
			50/125 μm OM2	Orange	1-1553321-2	
			50/125 μm OM3	Aqua	3-1553321-9	
		50/125 μm OM4	Aqua	4-1553321-9		
		Single-mode BIF	Yellow	7-1553321-3		
		Plenum	62.5/125 μm OM1	Orange	1-1553322-1	
	50/125 μm OM2		Orange	1-1553322-2		
			Aqua	3-1553322-9		
	50/125 μm OM3		Green	2-1553322-4		
			Red	5-1553322-4		
	50/125 μm OM4		Aqua	4-1553322-9		
		Black	6-1553322-5			
	Single-mode BIF	Yellow	7-1553322-3			
72	6 X12	Riser	62.5/125 μm OM1	Orange	1-1553323-1	
			50/125 μm OM2	Orange	1-1553323-2	
			50/125 μm OM3	Aqua	3-1553323-9	
		50/125 μm OM4	Aqua	4-1553323-9		
		Single-mode BIF	Yellow	7-1553323-3		
		Plenum	62.5/125 μm OM1	Orange	1-1553324-1	
	50/125 μm OM2		Orange	1-1553324-2		
			Aqua	3-1553324-9		
			Blue	1553324-4		
	50/125 μm OM3		Green	2-1553324-4		
			Red	5-1553324-4		
		Yellow	7-1553324-4			
	50/125 μm OM4	Aqua	4-1553324-9			
	Single-mode BIF	Yellow	7-1553324-3			
96	8 X12	Riser	62.5/125 μm OM1	Orange	1-1553325-1	
			50/125 μm OM2	Orange	1-1553325-2	
			50/125 μm OM3	Aqua	3-1553325-9	
		50/125 μm OM4	Aqua	4-1553325-9		
		Single-mode BIF	Yellow	7-1553325-3		
		Plenum	62.5/125 μm OM1	Orange	1-1553326-1	
	50/125 μm OM2		Orange	1-1553326-2		
	50/125 μm OM3		Aqua	3-1553326-9		
	50/125 μm OM4		Aqua	4-1553326-9		
	Single-mode BIF		Yellow	7-1553326-3		
	144		12 X12	Riser	62.5/125 μm OM1	Orange
		50/125 μm OM2			Orange	1-1553327-2
50/125 μm OM3		Aqua			3-1553327-9	
50/125 μm OM4		Aqua		4-1553327-9		
Single-mode BIF		Yellow		7-1553327-3		
Plenum		62.5/125 μm OM1		Orange	1-1553328-1	
		50/125 μm OM2	Orange	1-1553328-2		
		50/125 μm OM3	Aqua	3-1553328-9		
		50/125 μm OM4	Aqua	4-1553328-9		
		Single-mode BIF	Yellow	7-1553328-3		
			Black	6-1553328-3		



Hybrid Distribution Cables:

Fiber Count	Units X Fibers/Unit	Flame Rating	Number Of Fibers	Fiber Type	Outer Jacket Color	Part Number	
8	1 X 8	Riser	4	Single-mode BIF	Black	1553471-8	
			4	50/125 μm OM3			
12	1 X 12	Plenum	4	Single-mode BIF	Black	1553263-8	
			8	50/125 μm OM2			
		Plenum	6	Single-mode BIF	Aqua	3-1664404-9	
24	4 X 6	Riser	12	Single-mode BIF	Orange	4-1664086-1	
			12	62.5/125 μm OM1			
		Plenum	12	Single-mode BIF	Orange	4-1664087-1	
24	2 X 12	Riser	12	Single-mode BIF	Orange	4-1664084-1	
			12	62.5/125 μm OM1			
		Plenum	12	Single-mode BIF	Orange	4-1664085-1	
24	2 X 12	Plenum	12	Single-mode BIF	Aqua	3-1664406-9	
			12	50/125 OM3			
36	6 X 6	Riser	12	Single-mode BIF	Orange	4-1664088-1	
			24	62.5/125 μm OM1			
		Plenum	12	Single-mode BIF	Orange	4-1664089-1	
72	6 X 12	Riser	24	Single-mode BIF	Orange	4-1664090-1	
			48	62.5/125 μm OM1			
		Plenum	24	Single-mode BIF	Orange	4-1664091-1	
			48	62.5/125 μm OM1			
				48	Single-mode BIF	Black	
	24	50/125 μm OM3					

Note: Hybrid cables are constructed in order of core size from smallest to largest (single-mode fibers taking the first positions, followed by multimode). Single-mode subunits will have a yellow subunit jacket. Multimode OM1 and OM2 subunits will have an orange subunit jacket. Multimode OM3 and OM4 subunits will have an aqua jacket.

Mechanical Specifications:

Fiber Count (units x fibers/unit)	Flame Rating	O.D. mm (in)	Sub Unit O.D. mm (in)	Minimum Bend Radius		Nominal Weight kg/km (lbs/1000ft)	Rated Tensile Load	
				Install mm (in)	Long Term mm (in)		Install N (lbf)	Long Term N (lbf)
6 (1x6)	OFNR	5.4±1.2 (0.21±.05)	N/A	114 (4.5)	57 (2.2)	29 (19)	660 (150)	198 (45)
	OFNP	4.8±1.0 (0.19±.04)		110 (4.3)	55 (2.2)	24 (16)	440 (100)	132 (30)
8 (1x8)	OFNR	5.8±1.3 (0.23±.05)	N/A	136 (5.4)	68 (2.7)	24 (16)	660 (150)	198 (45)
	OFNP	5.0±0.8 (0.20±.03)		110 (4.3)	55 (2.2)	26 (17)	440 (100)	132 (30)
12 (1x12)	OFNR	6.3±1.0 (0.25±.04)	N/A	128 (5)	64 (2.5)	37 (25)	660 (150)	198 (45)
	OFNP	5.8±0.8 (0.20±.03)		128 (5)	64 (2.5)	46 (31)	440 (100)	132 (30)
24 (1x24)	OFNR	8.0±1.3 (0.31±.05)	N/A	178 (7)	89 (3.5)	61 (41)	1320 (300)	396 (90)
	OFNP	7.7±1.0 (0.30±.04)		168 (6.6)	84 (3.3)	69 (46)	660 (150)	198 (45)
24 (2x12)	OFNR	7.4±1.4 x 13.1±2.0 (0.29±.06 x 0.52±.08)	5.7±0.8 (0.23±.03)	284 (11.2)	142 (5.6)	87 (58)	1320 (300)	396 (90)
	OFNP	7.1±0.9 x 12.7±1.7 (0.28±.04 x 0.50±.07)	5.6±0.8 (0.22±.03)	264 (10.4)	132 (5.2)	92 (62)	660 (150)	198 (45)
24 (4x6)	OFNR	13.4±0.8 (0.53±.03)	4.4±0.6 (0.17±.02)	275 (10.8)	137 (5.4)	180 (121)	1320 (300)	396 (90)
	OFNP	12.7±1.6 (0.50±.06)	4.5±0.3 (0.18±.01)	266 (10.5)	133 (5.2)	200 (134)	660 (150)	198 (45)
36 (6x6)	OFNR	16.3±1.3 (0.64±.05)	4.4±0.6 (0.17±.02)	342 (13.5)	171 (6.7)	220 (148)	1320 (300)	396 (90)
	OFNP	16.2±1.1 (0.64±.04)	4.5±0.3 (0.18±.01)	327 (12.9)	164 (6.4)	255 (171)	660 (150)	198 (45)
48 (4x12)	OFNR	16.0±2.0 (0.63±.08)	5.6±0.7 (0.22±.03)	350 (13.8)	175 (6.9)	250 (168)	1320 (300)	396 (90)
	OFNP	15.6±1.7 (0.61±.07)	5.4±0.5 (0.21±.02)	312 (12.3)	156 (6.1)	202 (136)	660 (150)	198 (45)
72 (6x12)	OFNR	19.1±1.0 (0.75±.04)	5.4±0.4 (0.21±.02)	386 (15.2)	193 (7.6)	301 (202)	1320 (300)	396 (90)
	OFNP	18.9±1.7 (0.74±.04)	5.4±0.4 (0.21±.02)	386 (15.2)	193 (7.6)	316 (212)	660 (150)	198 (45)
96 (8x12)	OFNR	23.3±1.5 (0.92±.06)	5.4±0.4 (0.21±.02)	462 (18.2)	231 (9.1)	433 (291)	1320 (300)	396 (90)
	OFNP	22.6±1.8 (0.86±.07)	5.4±0.4 (0.21±.02)	448 (17.6)	224 (8.8)	466 (313)	660 (150)	198 (45)
144 (12x12)	OFNR	25.2±1.8 (0.99±.07)	5.4±0.4 (0.21±.02)	514 (20.2)	257 (10.1)	461 (310)	1320 (300)	396 (90)
	OFNP	24.2±2.0 (0.95±.08)	5.4±0.4 (0.21±.02)	514 (20.2)	257 (10.1)	474 (319)	660 (150)	198 (45)

Performance Characteristics:

	62.5/125 µm OM1 (850nm/1300nm)	Bend Insensitive 50/125 µm OM2 (850nm/1300nm)	Bend Insensitive OM3 (850nm/1300nm)	Bend Insensitive OM4 (850nm/1300nm)	Bend Insensitive Single-mode (1310nm/1550nm)
Maximum Attenuation	3.5/1.2 dB/km	3.5/1.5 dB/km	3.0/1.0 dB/km	3.0/1.0 dB/km	0.5/0.5 dB/km
OFL Bandwidth	200/500 MHz·km	500/500 MHz·km	1500/500 MHz·km	3500/500 MHz·km	Not Applicable
850nm Effective Modal Bandwidth	Not Applicable	Not Applicable	2000 MHz·km	4700 MHz·km	Not Applicable
10 Gigabit Ethernet at 850nm Maximum Distance	33m	82m	300m	550m	Not Applicable
Fiber Specification	TIA-492AAAA IEC 60793-2-10 A1b	TIA-492AAAB IEC 60793-2-10 A1a.1	TIA-492AAAC IEC 60793-2-10 A1a.2	TIA-492AAAD IEC 60793-2-10 A1a.3	ITU-T G.657.A1

Temperature Ratings:

UL/NEC Rating	Operation	Installation	Storage/Shipping
Plenum (OFNP)	0°C to +70°C (+32°F to +158°F)	0°C to +60°C (+32°F to +140°F)	-40°C to +70°C (-40°F to +158°F)
Riser (OFNR)	-20°C to +70°C (-4°F to +158°F)	-10°C to +60°C (14°F to +140°F)	