



OVERVIEW

GenSPEED Interconnect Tight Buffered Fiber cable family includes cable designs of one and two 900µm tight buffered fibers into a single flame retardant cable. Cable designs are available in both riser rated and plenum rated versions for deployment in any indoor application. A riser LSZH option is also available. The duplex (two fiber) versions are commonly in "zipcord" or "round" arrangement. Also available in round constructions with 4 fibers (duplex and quad).

SPECIFICATIONS / RATINGS

- Applications** Versatile indoor flame-rated cable providing unsurpassed performance for network patching/configuration. Easily terminated into jumper/pigtail cable assemblies
- Constructions** 1 fiber simplex, 2 fiber zipcord, 2 fiber round duplex, 4 fiber round quad
- Flame Ratings** Riser (OFNR / FT4); LSZH Riser (OFNR-LS/FT4 ST1); Plenum (OFNP / FT6)
- Fiber Count** 1 to 4 Fibers
- Fiber Types** Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125-OM2+, OM3 and OM4)
- Options** Interlock armor / preconnectorized
- Standards** ANSI/ICEA S-83-596, UL 1666, NFPA 262, CSA 22.2 No 230, Telcordia GR-409, CE RoHS compliant
- Registered Supplier** ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

FEATURES AND BENEFITS

- 900µm and 600µm tight buffered fibers designed to support rapid termination
- Available in 2.9mm, 2.0mm and 1.6mm zipcord designs
- Available in 4.8mm and 2.9mm round designs
- LSZH constructions available
- Available with bend-insensitive single-mode and multimode optical fibers
- Flexible, flame-retardant and color coded outer jacket
- Supports all high performance networks including OM4/10 gigabit ethernet systems



GenSPEED Interconnect | Indoor Riser | 516, 520, 529 Series | OFNR/FT4

Fiber Count	Cable Type	Recommended Part Number	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
			inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
1**	516	516-00-AA-001-BB	0.063	1.6	2	3	1.3	3.2	0.7	1.6	9	40	3	13
1	520	520-00-AA-001-BB	0.079	2.0	2	4	1.6	4.0	0.8	2.0	9	40	3	13
1	529	529-00-AA-001-BB	0.114	2.9	5	7	2.3	5.8	1.2	2.9	22	100	7	30
2 (Zipcord)	516Z	516Z-00-AA-002-BB	0.063 x 0.146	1.6 x 3.7	4	6	1.3	3.2	0.7	1.6	9	40	3	13
2 (Zipcord)	520Z	520Z-00-AA-002-BB	0.079 x 0.171	2.0 x 4.4	5	8	1.6	4.0	0.8	2.0	9	40	3	13
2 (Zipcord)	529Z	529Z-00-AA-002-BB	0.114 x 0.246	2.9 x 6.3	9	14	2.3	5.8	1.2	2.9	22	100	7	30
2*	529R	529R-00-AA-002-BB	0.114	2.9	5	7	2.3	5.8	1.2	2.9	22	100	7	30
2** or 4**	548R	548R-00-AA-004-BB	0.189	4.8	12	18	3.8	9.6	1.9	4.8	22	100	7	30

GenSPEED Interconnect | LSZH Riser | LSZH16, LSZH20, LSZH29 Series | OFNR-LS/FT4 ST1

Fiber Count	Cable Type	Recommended Part Number	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
			inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
1**	LSZH20	LSZH20-00-AA-001-BB	0.079	2.0	2	4	1.6	4.0	0.8	2.0	9	40	3	13
1**	LSZH29	LSZH29-00-AA-001-BB	0.114	2.9	5	7	2.3	5.8	1.2	2.9	22	100	7	30
2** (Zipcord)	LSZH20Z	LSZH20Z-00-AA-002-BB	0.079 x 0.171	2.0 x 4.4	5	8	1.6	4.0	0.8	2.0	9	40	3	13
2** (Zipcord)	LSZH29Z	LSZH29Z-00-AA-002-BB	0.114 x 0.246	2.9 x 6.3	9	14	2.3	5.8	1.2	2.9	22	100	7	30

GenSPEED Interconnect | Indoor Plenum | 816, 820, 829 Series | OFNP/FT6

Fiber Count	Cable Type	Recommended Part Number	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
			inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
1**	816	816-00-AA-001-BB	0.063	1.6	2	3	1.3	3.2	0.7	1.6	9	40	3	13
1	820	820-00-AA-001-BB	0.079	2.0	2	4	1.6	4.0	0.8	2.0	9	40	3	13
1	829	829-00-AA-001-BB	0.114	2.9	5	7	2.3	5.8	1.2	2.9	22	100	7	30
2 (Zipcord)	816Z	816Z-00-AA-002-BB	0.063 x 0.146	1.6 x 3.7	4	6	1.3	3.2	0.7	1.6	9	40	3	13
2 (Zipcord)	820Z	820Z-00-AA-002-BB	0.079 x 0.171	2.0 x 4.4	5	8	1.6	4.0	0.8	2.0	9	40	3	13
2 (Zipcord)	829Z	829Z-00-AA-002-BB	0.114 x 0.246	2.9 x 6.3	11	16	2.3	5.8	1.2	2.9	22	100	7	30
2	829R	829R-00-AA-002-BB	0.114	2.9	5	7	2.3	5.8	1.2	2.9	22	100	7	30
2** or 4**	848R	848R-00-AA-004-BB	0.189	4.8	14	20	3.8	9.6	1.9	4.8	22	100	7	30

* Only available with 600um TB fiber

** Only available with 900um TB fiber

*** Where AA equals glass type and BB equals attenuation code

Note: Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.

Outer Jacket Color Identification

Orange: Multimode OM1 and OM2+

Aqua: Multimode OM3 and OM4

Yellow: Single-mode

Temperature Range

Shipping and Storage: -40° F to +176° F (-40° C to +80° C)

Installation:

Riser: +14° F to +140° F (-10° C to +60° C)

Plenum: +32° F to +140° F (0° C to +60° C)

Operation:

Riser: -4° F to +176° F (-20° C to +80° C)

Plenum: +32° F to +176° F (0° C to +80° C)

Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

Example: GenSPEED Interconnect | 2.9 mm simplex | riser rated (OFNR/FT4) | with one multimode 62.5/125 fiber (printed in feet)



PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS
F = Feet or M = Meters	
2	PRODUCT FAMILY
900µm Tight Buffered Products *	
Interconnect Simplex & Duplex	
516 = 1f GenSPEED Interconnect Riser Simplex (1.6mm) TB OFNR / FT4	
520 = 1f GenSPEED Interconnect Riser Simplex (2.0mm) TB OFNR / FT4	
529 = 1f GenSPEED Interconnect Riser Simplex (2.9mm) TB OFNR / FT4	
516Z = 2f GenSPEED Interconnect Riser Zipcord (1.6mm) TB OFNR / FT4	
520Z = 2f GenSPEED Interconnect Riser Zipcord (2.0mm) TB OFNR / FT4	
529Z = 2f GenSPEED Interconnect Riser Zipcord (2.9mm) TB OFNR / FT4	
529R = 2f GenSPEED Interconnect Riser Round (2.9mm) TB OFNR / FT4	
548R = 2f or 4f GenSPEED Interconnect Riser Round (4.8mm) TB OFNR / FT4	
816 = 1f GenSPEED Interconnect Plenum Simplex (1.6mm) TB OFNP / FT6	
820 = 1f GenSPEED Interconnect Plenum Simplex (2.0mm) TB OFNP / FT6	
829 = 1f GenSPEED Interconnect Plenum Simplex (2.9mm) TB OFNP / FT6	
816Z = 2f GenSPEED Interconnect Plenum Zipcord (1.6mm) TB OFNP / FT6	
820Z = 2f GenSPEED Interconnect Plenum Zipcord (2.0mm) TB OFNP / FT6	
829Z = 2f GenSPEED Interconnect Plenum Zipcord (2.9mm) TB OFNP / FT6	
829R = 2f GenSPEED Interconnect Plenum Round (2.9mm) TB OFNP / FT6	
848R = 2f or 4f GenSPEED Interconnect Plenum Round (4.8mm) TB OFNP / FT6	
LSZH20 = 1f GenSPEED Interconnect LSZH Riser Simplex (2.0mm) TB OFNR/FT4	
LSZH29 = 1f GenSPEED Interconnect LSZH Riser Simplex (2.9mm) TB OFNR/FT4	
LSZH20Z = 2f GenSPEED Interconnect LSZH Riser Zipcord (2.0mm) TB OFNR/FT4	
LSZH29Z = 2f GenSPEED Interconnect LSZH Riser Zipcord (2.9mm) TB OFNR/FT4	
3	CONSTRUCTION
(BLANK) = None	
4	FIBER GROUPING
00 = Single unit	

* for 600um products, add 6 at the end of Product Family code.

FIBER INFORMATION				
5	FIBER TYPE			
SINGLE-MODE				
HB = Single-Mode (ITU G.652 C & D) Low Water Peak				
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)				
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)				
MULTIMODE				
	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___
6	FIBER COUNT			
1 to 4 fibers				
7	FIBER GRADE			
SINGLE-MODE				
	Attenuation (dB/km)	Wavelength (nm)	Fiber Type	
EB = 0.7/0.7/0.7		1310/1383/1550	Single-Mode	
EA = 0.5/0.5/0.5		1310/1383/1550	Bend Insensitive Single-Mode	
E7 = 0.4/0.4/0.3		1310/1383/1550	Bend Insensitive Single-Mode	
MULTIMODE				
	Attenuation (dB/km)	Wavelength (nm)		
M2 = 3.5/1.0		850/1300	OM1 (62.5µm)	
M3 = 3.0/1.0		850/1300	OM2+, OM3, OM4 (50µm)	

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help. Other cable constructions and fiber performance grades available on request.