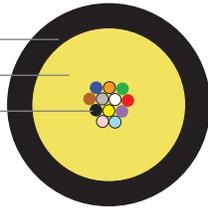


GenSPEED® Distribution Indoor-Outdoor Tight Buffered

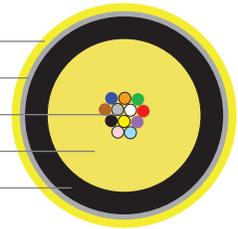
Riser and plenum rated cables



Flame Retardant Jacket
Water Blocking Strength Members
Optical Fibers



Flame Retardant Outer Jacket
Interlock Armor
Optical Fibers
Water Blocking Strength Members
Flame Retardant Inner Jacket



OVERVIEW

Prysmian's GenSPEED Distribution cable family packages up to 144 color-coded 900 µm tight buffered fibers into a single flame retardant cable. This cable design is available in both riser rated and plenum rated versions for deployment in any inside plant fire-code application. The UV-resistant outer jacket, coupled with dry waterblocking technology, address environmental concerns for outdoor use. The tight buffered distribution cable supports standard installation practices and may be easily terminated using established field connectorization methods.

SPECIFICATIONS / RATINGS

- Applications** Versatile indoor-outdoor tight buffered cable for use with field installable connectors
- Constructions** Single-Unit (≤ 24f); Subunits (≥ 18f); interlock armor optional
- Flame Ratings** Riser rated design complies with UL1666 & UL1685/IEEE1202; OFNR and OFNG-FT4 rated. Plenum rated design complies with NFPA 262; OFNP/FT6 rated
- Fiber Count** 2 to 144 (Riser), 2 to 96 (Plenum)
- Fiber Types** Single-mode (ESMF, bend-insensitive)
Multimode (62.5/125-OM1, 50/125- OM2+, OM3, OM4 & OM5)
- Standards** TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, UL-1666, NFPA 262, CSA 22.2 Telcordia GR-409, Telcordia GR-20, CE RoHS Compliant
 - Single Unit Designs – Weatherized Indoor as defined in ICEA 696 (appendix)
 - Multi Unit Designs – Indoor/Outdoor as defined in ICEA 696
- Registered Supplier** ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

FEATURES AND BENEFITS

- 900 µm tight buffered fibers designed to support rapid field termination
- Industry standard color coding for quick, error-free fiber identification
- Single-Unit designs provide space savings and cost advantages
- Subunit construction improves organization and termination practices
- Available with bend-insensitive single-mode and multimode optical fibers
- Flexible, flame-retardant and UV-stable outer jacket
- Optional Interlock Armor provides robust protection and supports one-step installation
- Supports all high performance networks including OM4/10 Gigabit Ethernet systems



Prysmian

4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-B-401 0325

GenSPEED® Distribution Indoor-Outdoor Tight Buffered

Riser and plenum rated cables



GenSPEED Distribution Indoor/Outdoor Riser C1181 Series OFNR/FT4

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		Fibers per Unit	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
		Prysmian*	General Cable**		inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
2	2	C1181-00-AA-002-BB	XX0021ANR	single-unit	0.19	4.8	15	22	3.8	9.6	1.9	4.8	150	660	45	200
4	4	C1181-00-AA-004-BB	XX0041ANR	single-unit	0.22	5.6	19	28	4.4	11.2	2.2	5.4	150	660	45	200
6	6	C1181-00-AA-006-BB	XX0061ANR	single-unit	0.24	6.0	21	31	4.8	12.0	2.4	5.4	150	660	45	200
8	8	C1181-00-AA-008-BB	XX0081ANR	single-unit	0.25	6.2	23	34	5.0	12.4	2.5	5.4	150	660	45	200
12	12	C1181-00-AA-012-BB	XX0121ANR	single-unit	0.28	7.0	30	45	5.6	14.0	2.8	6.2	150	660	45	200
18	18	C1181-00-AA-018-BB	XX0181ANR	single-unit	0.31	7.7	36	53	6.2	15.4	3.1	7.8	300	1330	90	400
24	24	C1181-00-AA-024-BB	XX0241ANR	single-unit	0.32	8.1	43	64	6.4	16.2	3.2	8.1	300	1330	90	400
18-24	24	C1181-06-AA-024-BB	XX0241AIR	6	0.53	13.5	103	153	10.6	27.0	5.3	14.1	600	2670	180	800
36-48	48	C1181-12-AA-048-BB	XX0481AIR	12	0.61	15.5	140	209	12.2	31.0	6.1	15.5	600	2670	180	800
72	72	C1181-12-AA-072-BB	XX0721AIR	12	0.80	20.3	208	309	16.0	40.6	8.0	20.3	600	2670	180	800
96	96	C1181-12-AA-096-BB	XX0961AIR	12	0.95	24.2	296	441	19.0	48.4	9.5	24.2	600	2670	180	800
144	144	C1181-12-AA-144-BB	XX1441AIR	12	1.02	25.9	347	516	20.4	51.8	10.2	25.9	600	2670	180	800

GenSPEED Distribution Indoor/Outdoor Plenum C1182 Series OFNP/FT6

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		Fibers per Unit	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
		Prysmian*	General Cable**		inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
2-4	2	C1182-00-AA-002-BB	XX0021ANU	single-unit	0.18	4.6	14	21	3.6	9.2	1.8	4.6	100	440	30	150
6	6	C1182-00-AA-006-BB	XX0061ANU	single-unit	0.20	5	15	22	4.0	10.0	2.0	5.0	100	440	30	150
8	8	C1182-00-AA-008-BB	XX0081ANU	single-unit	0.21	5.2	18	27	4.2	10.4	2.1	5.2	100	440	30	150
12	12	C1182-00-AA-012-BB	XX0121ANU	single-unit	0.24	6.1	22	33	4.8	12.2	2.4	6.1	100	440	30	150
18	18	C1182-00-AA-018-BB	XX0181ANU	single-unit	0.26	6.5	32	48	5.2	13.0	2.6	6.5	150	660	45	200
24	24	C1182-00-AA-024-BB	XX0241ANU	single-unit	0.30	7.6	42	62	6.0	15.2	3.0	7.6	150	660	45	200
18-24	24	C1182-06-AA-024-BB	XX0241AID	6	0.46	11.6	85	126	9.2	23.2	4.6	11.6	600	2670	180	800
36-48	48	C1182-12-AA-048-BB	XX0481AID	12	0.56	14.1	130	194	11.2	28.2	5.6	14.1	600	2670	180	800
72	72	C1182-12-AA-072-BB	XX0721AID	12	0.74	18.7	233	347	14.8	37.4	7.4	18.7	600	2670	180	800
96	96	C1182-12-AA-096-BB	XX0961AID	12	0.89	22.6	330	491	17.8	45.2	8.9	22.6	600	2670	180	800

*Where AA equals glass type and BB equals attenuation code

**Where XX equals glass type

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.

Temperature Range

Shipping and Storage:	Riser	-40° F to +158° F	(-40° C to +70° C)
	Plenum	-40° F to +158° F	(-40° C to +70° 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	-40° F to +158° F	(-40° C to +70° C)
	Plenum	-40° F to +158° F	(-40° C to +70° C)



GenSPEED® Distribution Indoor-Outdoor Tight Buffered



Riser and plenum rated cables

GenSPEED Distribution Indoor/Outdoor Riser with Interlock Armor C1181AJ Series OFCR/FT4

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		Fibers per Unit	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
		Prysmian*	General Cable**		inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
2	2	C1181AJ-00-AA-002-BB	XX0021ANR ILRA	single-unit	0.52	13.1	120	179	10.4	26.2	5.2	13.1	150	660	45	200
4-6	6	C1181AJ-00-AA-006-BB	XX0061ANR ILRA	single-unit	0.56	14.2	132	196	11.2	28.4	5.6	14.2	150	660	45	200
8	8	C1181AJ-00-AA-008-BB	XX0081ANR ILRA	single-unit	0.57	14.5	135	201	11.4	29.0	5.7	14.5	150	660	45	200
12	12	C1181AJ-00-AA-012-BB	XX0121ANR ILRA	single-unit	0.59	14.9	138	205	11.8	29.8	5.9	15.0	150	660	45	200
18	18	C1181AJ-00-AA-018-BB	XX0181ANR ILRA	single-unit	0.62	15.6	149	222	12.4	31.2	6.2	15.6	300	1330	90	400
24	24	C1181AJ-00-AA-024-BB	XX0241ANR ILRA	single-unit	0.63	16.0	161	240	12.6	32.0	6.3	16.0	300	1330	90	400
18-24	24	C1181AJ-06-AA-024-BB	XX0241AIR ILRAS	6	0.88	22.4	296	440	17.6	44.7	8.8	22.4	600	2670	180	800
36-48	48	C1181AJ-12-AA-048-BB	XX0481AIR ILRAS	12	0.97	24.6	396	589	19.4	49.2	9.7	24.6	600	2670	180	800
72	72	C1181AJ-12-AA-072-BB	XX0721AIR ILRAS	12	1.16	29.5	504	750	23.2	59.0	11.6	29.5	600	2670	180	800
96	96	C1181AJ-12-AA-096-BB	XX0961AIR ILRAS	12	1.32	33.5	603	897	26.4	67.0	13.2	33.5	600	2670	180	800
144	144	C1181AJ-12-AA-144-BB	XX1441AIR ILRAS	12	1.38	35.1	712	1060	27.6	70.2	13.8	35.1	600	2670	180	800

GenSPEED Distribution Indoor/Outdoor Plenum with Interlock Armor C1182AJ Series OFCP/FT6

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		Fibers per Unit	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
		Prysmian*	General Cable**		inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
2-6	2	C1182AJ-00-AA-002-BB	XX0021ANU ILPA	single-unit	0.47	12.0	90	134	9.4	24.0	4.7	12.0	100	440	30	150
8	8	C1182AJ-00-AA-008-BB	XX0081ANU ILPA	single-unit	0.49	12.3	95	141	9.8	24.6	4.9	12.3	100	440	30	150
12	12	C1182AJ-00-AA-012-BB	XX0121ANU ILPA	single-unit	0.52	13.2	99	148	10.4	26.4	5.2	13.2	100	440	30	150
18	18	C1182AJ-00-AA-018-BB	XX0181ANU ILPA	single-unit	0.54	13.6	114	170	10.8	27.2	5.4	13.6	150	660	45	200
24	24	C1182AJ-00-AA-024-BB	XX0241ANU ILPA	single-unit	0.58	14.7	131	195	11.6	29.4	5.8	14.7	150	660	45	200
18-24	24	C1182AJ-06-AA-024-BB	XX0241AID ILPAS	6	0.73	18.5	187	279	14.6	37.0	7.3	18.5	600	2670	180	800
36-48	48	C1182AJ-12-AA-048-BB	XX0481AID ILPAS	12	0.86	21.8	314	468	17.2	43.6	8.6	21.8	600	2670	180	800
72	72	C1182AJ-12-AA-072-BB	XX0721AID ILPAS	12	1.05	26.7	463	689	21.0	53.4	10.5	26.7	600	2670	180	800
96	96	C1182AJ-12-AA-096-BB	XX0961AID ILPAS	12	1.19	30.2	600	893	23.8	60.4	11.9	30.2	600	2670	180	800

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

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.

Temperature Range

Shipping and Storage:	Riser	-40° F to +158° F	(-40° C to +70° C)
	Plenum	-40° F to +158° F	(-40° C to +70° 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	-40° F to +158° F	(-40° C to +70° C)
	Plenum	-40° F to +158° F	(-40° C to +70° C)



GenSPEED® Distribution Indoor-Outdoor Tight Buffered

Riser and plenum rated cables



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 Distribution Tight Buffered | Indoor-Outdoor Riser (OFNR/FT4), 12 fiber subunits | 48 62.5/125 Multimode Fibers total (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	C1181	BLANK	12	G5	048	M2

PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS
F = Feet or M = Meters	
2	PRODUCT FAMILY
Riser-FT4 C1181 = GenSPEED Distribution Indoor/Outdoor Riser Tight Buffer Flame Rating: OFNR/FT4 Fiber Count 2 to 144	
Plenum-FT6 C1182 = GenSPEED Distribution Indoor/Outdoor Plenum Tight Buffer Flame Rating: OFNP/FT6 Fiber Count 2 to 96	
3	CONSTRUCTION
(BLANK) = None	
AJ = Jacketed aluminum OFCR FT4 or OFCP FT6	
SJ = Jacketed steel OFCR FT4 or OFCP FT6	
4	FIBER GROUPING
00 = Single unit	
06 = 6f per subunit	
12 = 12f per subunit	

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.

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/___
GW = OM5 BIF (50µm)		850/1300	4700/2470	1100	550/___
6	FIBER COUNT				
2 to 144 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)		Fiber Type		
M2 = 3.5/1.0	850/1300		OM1 (62.5µm)		
M3 = 3.0/1.0	850/1300		OM2+, OM3, OM4 (50µm)		

Other cable constructions and fiber performance grades available on request.



Prysmian

4 Tessenere Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-B-401 0325