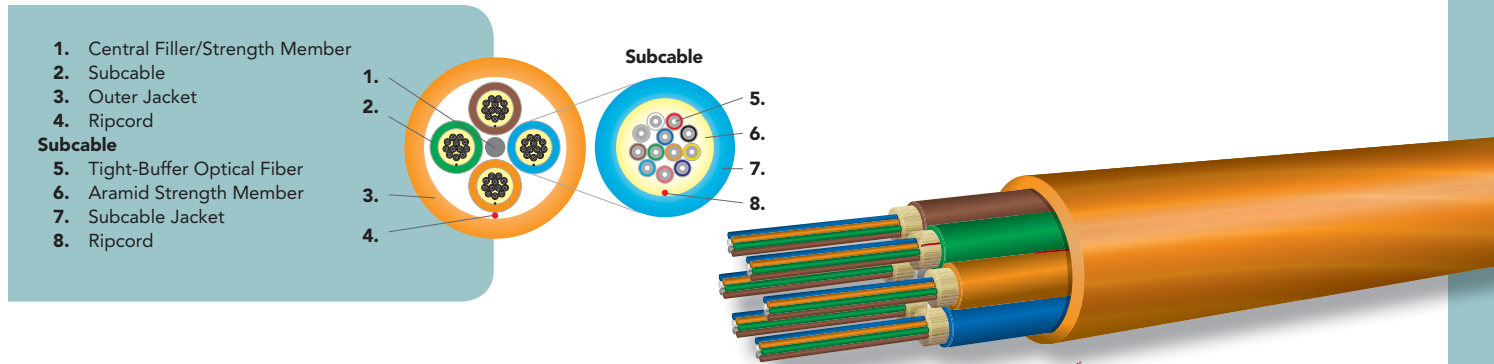


(3.2p) G-Series Subgrouping – Plenum Rated Cables



Applications

- Used in trunking, LAN and distribution applications where versatile installation capability is required for ducts, plenums, and air-handling spaces
- Design allows subcables to be routed to multiple locations such as wiring racks and closets
- Suitable for both indoor plenum and outdoor installation – no need to splice outdoor cable to indoor cable at the building entrance

Features

- High-performance components and construction
- UL listed in accordance with NEC sections 770.179(a) for use in ducts, plenums and air-handling spaces
- Cable materials are indoor/outdoor – UV, water and fungus resistant
- Wide operating temperature range of -40°C to +85°C
- Helically stranded core for greater flexibility and mechanical protection of the optical fibers
- Multifiber color-coded subcables, each similar to the D-Series Distribution cable, are easy to identify for improved cable management during installation
- Best design for multimode and single-mode fiber hybrid cables
- Available with 6-fiber (4.5mm) or 12-fiber (5.5mm) subcables
- Jacket highly chemical resistant for installation in harsh industrial environments
- Interlocking armor can be applied to cables as an alternative to conduit installation

Cost Savings

- 900µm buffer eliminates the need for costly and time-consuming installation of fanout kits or pigtail splices because connectors terminate directly to the fiber
- No need to splice outdoor cable to indoor cable at building entrance
- High crush resistance may eliminate the need for innerduct



Mechanical and Environmental Performance

	INDOOR/OUTDOOR
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Installation temperature (cable temp.)	0°C to +60°C
Flame retardancy	UL listed type OFNP (ANSI/NFPA 262) and FT6 (CSA C22.2 No. 232)
Impact resistance	1,000 impacts (EIA/TIA-455-25A)
Crush resistance	2,100 N/cm (TIA/EIA-455-41A)
Flex resistance	2,000 cycles (TIA/EIA-455-104A)

Applicable Standards

OCC indoor/outdoor tight-buffered fiber optic cables meet the functional requirements of the following standards:

- ICEA-S-83-596
- ICEA-S-104-696
- GR-409-CORE ISSUE 2
- TIA-568
- TIA-598
- UL 1651
- UL 1666
- ANSI/NFPA 262

 (3.2p) G-Series Subgrouping – Plenum Rated Cables

**Cable Characteristics:
G-Series Subgrouping Plenum Cable with 6-Fiber Subcables (4.5mm subcables)**

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
12	14.1 (0.56)	217 (146)	3,800 (850)	1,200 (270)	21.2 (8.3)	21.2 (8.3)
18	14.1 (0.56)	211 (142)	4,700 (1,060)	1,500 (340)	21.2 (8.3)	21.2 (8.3)
24	14.1 (0.56)	206 (138)	5,600 (1,260)	1,800 (400)	21.2 (8.3)	21.2 (8.3)
30	14.7 (0.58)	243 (163)	7,500 (1,690)	2,400 (540)	22.1 (8.7)	22.1 (8.7)
36	16.1 (0.63)	262 (176)	8,900 (2,000)	2,850 (640)	24.2 (9.5)	24.2 (9.5)

G-Series Subgrouping Plenum Cable with 12-Fiber Subcables (5.5mm subcables)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
24	15.4 (0.61)	273 (183)	4,600 (1,030)	1,500 (340)	23.2 (9.1)	23.2 (9.1)
36	15.4 (0.61)	263 (177)	5,900 (1,330)	1,950 (440)	23.2 (9.1)	23.2 (9.1)
48	15.4 (0.61)	254 (170)	7,200 (1,620)	2,400 (540)	23.2 (9.1)	23.2 (9.1)
60	16.9 (0.67)	293 (197)	9,500 (2,140)	3,150 (710)	25.4 (10.0)	25.4 (10.0)
72	18.4 (0.72)	317 (213)	11,300 (2,540)	3,750 (840)	27.6 (10.9)	27.6 (10.9)

Installation loads in excess of 2,700 N (600 lbs.) are not recommended.
Other fiber counts available upon request.

Ordering Information

Digit No:	1	2	3	4	5	6	7	8	9	10	11	12
	G								9			P
1	Subgrouping Series Ultra-Fox = G											
2	6-fiber subcables = B ; 12-fiber subcables = X											
3 – 5	Fiber count: 6-fiber subcables = 012–036 , 12-fiber subcables = 024–072											
6	Jacket type: Indoor/Outdoor Fluoropolymer (12–72 fiber) = K , (84–144 fiber) = W											
7 – 9	Fiber type: (see Laser Ultra-Fox Fiber Performance Table, p. 23)											
10	Ultra-Fox fiber with 900µm tight-buffer = 9											
11	Standard jacket colors:											
	62.5µm multimode (WLS, WLX): Orange = O											
	50µm multimode (ALS, ALX): Orange = O											
	50µm 10 Gigabit multimode (ALT, ALE): Aqua = Q											
	Single-mode: Yellow = Y											
12	Rating: Plenum = P											

Example: 48-fiber cable (12-fiber subcables) using 62.5µm standard Laser Ultra-Fox fiber, orange jacket –

G X 0 4 8 K W L S 9 O P