

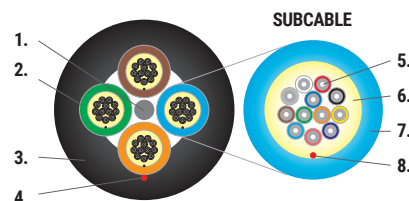
## APPLICATIONS

- » Ideal for installations requiring a rugged and reliable cable design where maximum mechanical and environmental protection are necessary
- » Typical industrial uses are factory automation, power generation and other utilities, oil and gas refining, and surface mining
- » Ideal for installations requiring high fiber count cables or that require 6 or 12 fiber subunits

## FEATURES

- » Design allows multi-fiber subcables to be routed to multiple locations such as wiring racks and closets
- » Low-temperature PVC outer jacket (J-Jacket) provides excellent performance and flexibility at low temperatures
- » High crush and tensile load ratings
- » Oil resistant for use in industrial applications (J-Jacket)
- » Designed to exceed the flammability requirements of Chapter 8 IEEE 383
- » Meets all applicable standards for impact and crush resistance (CSA C22.2 No. 230)
- » J-Jacket is UV, fungus, oil, and moisture resistant

## G-SERIES SUBGROUPING CABLES



1. Central Filler/Strength Member
2. Subcable
3. Outer Jacket
4. Ripcord

### SUBCABLE

5. 900µm Tight-Buffer Optical Fiber
6. Aramid Strength Member
7. Subcable Jacket
8. Ripcord

## A FIBER CABLE USED IN A TRAY MUST HAVE THESE MECHANICAL CAPABILITIES



Absorbs **IMPACT** from falling debris



**CRUSH** resistant against other cables in the metal rungs of the tray



Able to handle extreme **TEMPERATURES** (hot/cold)



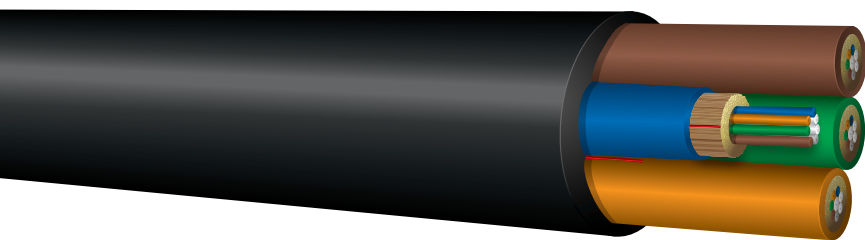
Able to withstand exposure to direct sunlight  
**UV RESISTANT**



**FLAME** resistance appropriate to the installation environment

## MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

	D-JACKET	J-JACKET
OUTER JACKET MATERIAL	PVC	Low-Temperature PVC
OPERATING TEMPERATURE	-40°C to + 85°C	-50°C to + 75°C
STORAGE TEMPERATURE	-55°C to + 85°C	-55°C to + 85°C
INSTALLATION TEMPERATURE (CABLE TEMP)	-10°C to + 60°C	-30°C to + 60°C
FLAME RETARDANCY	UL listed type OFNR (UL 1666) and FT4 (UL 1685)	UL listed type OFNR (UL 1666)
CRUSH RESISTANCE (TIA-455-41)	2,100 N/cm	2,100 N/cm
FLEX RESISTANCE (TIA-455-104)	2,000 cycles	2,000 cycles



## CABLE CHARACTERISTICS

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000FT)	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
24	16.6 (0.65)	274 (184)	4,600 (1,030)	1,500 (340)	24.9 (9.8)	16.6 (6.5)
36	16.6 (0.65)	272 (183)	5,900 (1,330)	1,050 (440)	24.9 (9.8)	16.6 (6.5)
48	16.6 (0.65)	270 (181)	7,200 (1,620)	2,400 (540)	24.9 (9.8)	16.6 (6.5)

\*Installation loads in excess of 2,700 N (600 lbs.) are not recommended.

## 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 1666**

**CSA C22.2 NO. 230**

## ORDERING INFORMATION

SERIES	FIBER COUNT				JACKET TYPE	FIBER TYPE				FIBER UNIT	JACKET COLOR	RATING	REINFORCEMENT	
<b>G</b>										<b>9</b>	<b>K</b>	<b>R</b>		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

Digit No:	1	Subgrouping Series Ultra-Fox = <b>G</b>												
	2	6-Fiber Subcables = <b>B</b> ; 12-Fiber Subcables = <b>X</b>												
	3 – 5	Fiber Count: 6-Fiber Subcables = <b>012–036</b> , 12-Fiber Subcables = <b>024–144</b>												
	6	Jacket Type: Low-Temp PVC = <b>J</b> , PVC = <b>D</b>												
	7 – 9	Fiber Type: Multiple options available. Please see OCC Catalog for complete listing.												
	10	Ultra-Fox Fiber with 900µm Tight-Buffer = <b>9</b>												
	11	Standard Jacket Colors: Black = <b>K</b> (other jacket colors available upon request)												
	12	Rating: Riser = <b>R</b>												
	13 – 14	Reinforcements: D-Jacket (12-48 Fiber) ILA = <b>I2</b> ; FRP = <b>F1</b>												

**Example:** 48-Fiber Riser Rated Tray Cable (12-Fiber Subcables) Using 62.5µm Standard Laser Ultra-Fox Fiber, Black, Low-Temp PVC Jacket

<b>G</b>	<b>X</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>J</b>	<b>W</b>	<b>L</b>	<b>S</b>	<b>9</b>	<b>K</b>	<b>R</b>			
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### OCC ROANOKE, VA

Corporate Headquarters and Fiber Optic Cable Manufacturing Facility  
5290 Concourse Drive  
Roanoke, VA 24019 USA  
**540.265.0690 or 800.622.7711**

### OCC DALLAS, TX

Harsh Environment and Specialty Connectivity Manufacturing Facility  
1700 Capital Avenue, Suite 150  
Plano, TX 75074 USA  
**972.509.1500 or 877.509.1500**

### OCC ASHEVILLE, NC

Enterprise Connectivity Manufacturing Facility  
33 Superior Way  
Swannanoa, NC 28778 USA  
**828.298.2260 or 800.880.7674**

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