

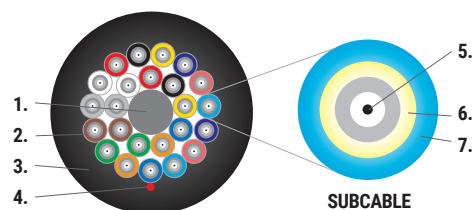
APPLICATIONS

- » Ideal for installations requiring an extremely rugged and reliable cable design where maximum mechanical and environmental protection are necessary
- » Easiest cable to install where direct termination of the subcable to a connector and a direct run to panels and equipment are desired
- » Ideal for locations requiring low-temperature performance along with a flame rating
- » Ideal for instrumentation & control

FEATURES

- » Individual fibers and strength members protected in a subcable configuration
- » Most rugged cable design with individual subcables for routing to diverse intelligent devices with direct connector termination at each device
- » Low-temperature PVC outer jacket (J-Jacket) provides excellent performance and flexibility at low temperatures
 - Wide operating temperature range of -50°C to +75°C
 - Oil resistant for use in industrial applications
 - Designed to exceed the flammability requirements of Chapter 8 of IEEE 383
- » Meets all applicable standards for impact & crush resistance (CSA C22.2 No. 230)
- » J-Jacket is UV, fungus, and moisture resistant

B-SERIES BREAKOUT 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

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



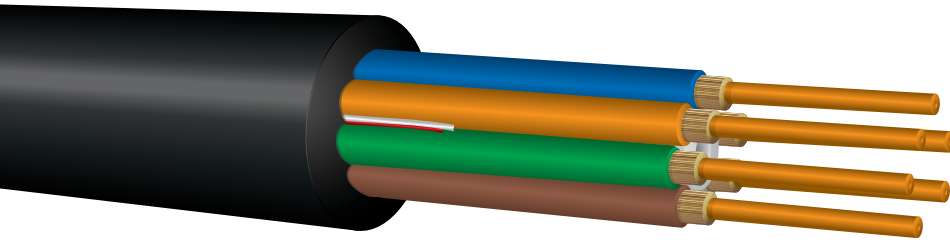
FLAME resistance appropriate to the installation environment

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

	D-JACKET	J-JACKET	Z-JACKET
OUTER JACKET MATERIAL	PVC	Low-Temperature PVC	Indoor/Outdoor Zero Halogen
OPERATING TEMPERATURE	-40°C to + 85°C	-50°C to + 75°C	-40°C to + 70°C
STORAGE TEMPERATURE	-55°C to + 85°C	-55°C to + 85°C	-40°C to + 85°C
INSTALLATION TEMPERATURE (CABLE TEMP)	-10°C to + 60°C	-30°C to + 60°C	-20°C to + 60°C
FLAME RETARDANCY	UL listed type OFNR (UL 1666) and FT4 (UL 1685)	UL listed type OFNR (UL 1666) and FT4 (UL 1685)	UL listed type OFNR-ST1 (UL 1666 & UL1685), FT4 (UL 1685)
CRUSH RESISTANCE (TIA-455-41)	2,200 N/cm	2,200 N/cm	2,200 N/cm
FLEX RESISTANCE (TIA-455-104)	2,000 cycles	2,000 cycles	2,000 cycles



B-SERIES BREAKOUT RISER FIBER OPTIC TRAY CABLE SPECIFICATIONS



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)
2	7.0 (0.28)	41 (28)	1,200 (270)	500 (110)	10.5 (4.1)	7.0 (2.8)
6	9.6 (0.38)	88 (59)	3,000 (670)	1,200 (270)	14.4 (5.7)	9.6 (3.8)
12	14.1 (0.55)	159 (107)	6,000 (1,350)	2,500 (560)	21.2 (8.3)	14.1 (5.5)
24	17.6 (0.69)	292 (196)	10,000 (2,250)	3,800 (850)	26.4 (10.4)	17.6 (6.9)
48	24.2 (0.95)	501 (336)	18,000 (4,050)	7,500 (1,690)	36.3 (14.3)	24.2 (9.5)
72	28.9 (1.14)	768 (516)	26,000 (5,845)	11,000 (2,470)	43.4 (17.1)	28.9 (11.4)

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										9	K			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

Digit No:	1 – 2	B-Series Breakout Series Ultra-Fox Tray Cables = 2.0mm Subcables = BE 2.5mm Subcables = BX
	3 – 5	Fiber Count: = 002-072 (J & D-Jacket), = 002-024 (Z-Jacket)
	6	Jacket Type: Low-Temperature PVC = J ; PVC = D ; Indoor/Outdoor Zero Halogen = Z
	7 – 9	Fiber Type: Single-Mode, OM1, OM3, OM4
	10	Ultra-Fox Fiber with 900µm Tight-Buffer = 9
	11	Standard Jacket Colors: Black = K (other jacket colors available upon request)
	12	Rating: Riser = R (J & D-Jacket); Flame Retardant Zero Halogen = E
	13 – 14	Reinforcements = D-Jacket (2-24 Fiber) ILA = I2 ; FRP = F1 J-Jacket (2-24 Fiber) ILA = IC ; FRP = FC Z-Jacket (2-24 Fiber) ILA = I4 ; FRP = F6 ; CST = A4

Example: 6-Fiber Riser Rated Tray Cable with 2.0mm Subcables Using 62.5µm Standard Laser Ultra-Fox Fiber, Black, PVC Jacket

B	E	0	0	6	D	W	L	S	9	K	R			
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Example: 12-Fiber Riser Rated Tray Cable with 2.0mm Subcables Using 62.5µm Standard Laser Ultra-Fox Fiber, Black, Low-Temp, Aluminum Interlocking Armored (ILA) Reinforcement, PVC Jacket

B	E	0	1	2	D	W	L	S	9	K	R	I	2	
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