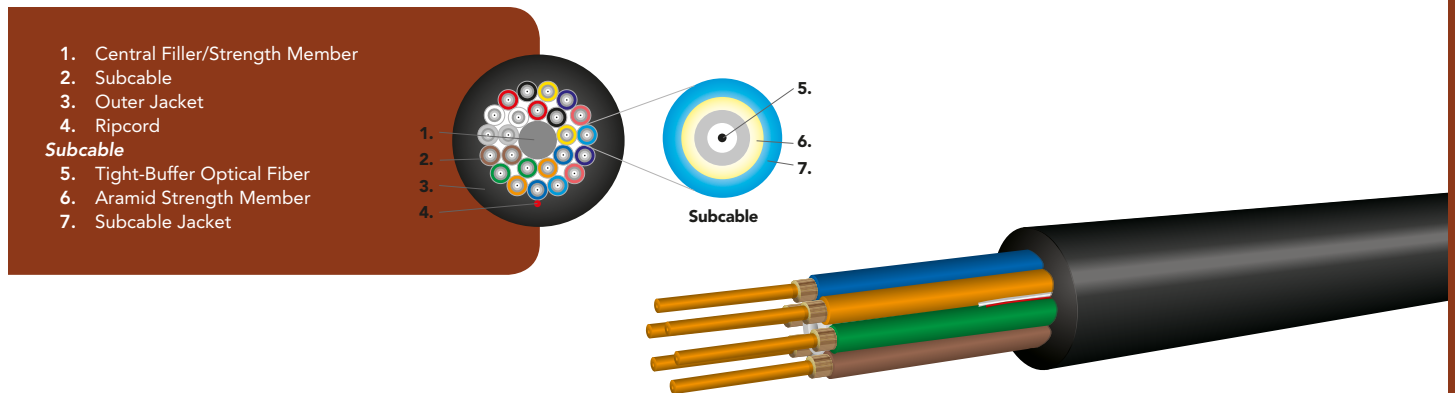


(5.6a) B-Series Breakout – Riser Rated Tray Cables




Applications

- Ideal for installations requiring an extremely 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
- 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

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
- Independently tested to CSA C22.2 No. 230 (tray cables)
- Fibers may be directly terminated at factory devices or central locations using connectors with no further protection required
- J jacket is UV, fungus and moisture resistant
- Designed for indoor/outdoor installations, including cable trays
- 2 to 72 fiber counts are available with 2.0mm or 2.5mm subcables
- Low-temperature PVC outer jacket (J material) provides excellent performance and flexibility at low temperatures
- Wide operating temperature range of -50°C to +75°C
- Core-Locked™ jacket prevents cable from flattening and the jacket from wrinkling in tight-bends
 - Permits pulling with direct attachment of wire mesh grip; no need to access inner aramid strength members
 - Improves crush and tear resistance
 - Contains 25% more material than conventional jackets
- High crush and tensile load ratings compared to similar tray service fiber optic cables
- Oil resistant for use in industrial applications
- UL listed in accordance with NEC section 770.179(b) for use in vertical runs in building riser shafts or from floor to floor
- Designed to exceed the flammability requirements of Chapter 8 of IEEE 383



 (5.6a) B-Series Breakout – Riser Rated Tray Cables

Mechanical and Environmental Performance

	INDOOR/OUTDOOR
Operating temperature	-50°C to +75°C
Storage temperature	-55°C to +85°C
Installation temperature (cable temp.)	-30°C to +60°C
Flame retardancy	UL listed type OFNR (UL 1666) and FT4 (CSA C22.2 No. 232)
Crush resistance (TIA-455-41)	2,200 N/cm
Flex resistance (TIA-455-104)	2,000 cycles

Cable Characteristics: B-Series Breakout Riser Rated Tray Cables (with 2.0mm 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)
2	6.0 (0.24)	40 (27)	800 (180)	200 (40)	9.0 (3.5)	6.0 (2.4)
4	6.9 (0.27)	52 (35)	1,600 (360)	400 (90)	10.4 (4.1)	6.9 (2.7)
6	8.1 (0.32)	67 (45)	2,400 (540)	600 (130)	12.2 (4.8)	8.1 (3.2)
8	9.4 (0.37)	88 (59)	3,200 (720)	800 (180)	14.1 (5.6)	9.4 (3.7)
12	10.9 (0.43)	108 (73)	4,800 (1,000)	1,200 (270)	16.4 (6.5)	10.9 (4.3)
18	12.6 (0.50)	156 (105)	6,000 (1,350)	1,500 (340)	18.9 (7.4)	12.6 (5.0)
24	14.7 (0.58)	218 (146)	7,200 (1,600)	1,800 (400)	22.1 (8.7)	14.7 (5.8)
30	16.8 (0.66)	268 (180)	9,600 (2,100)	2,400 (540)	25.2 (9.9)	16.8 (6.6)
36	16.8 (0.66)	266 (179)	9,600 (2,100)	2,400 (540)	25.2 (9.9)	16.8 (6.6)
48	20.1 (0.79)	387 (260)	12,000 (2,700)	3,000 (680)	30.2 (11.9)	20.1 (7.9)
60	22.7 (0.89)	489 (329)	15,000 (3,400)	3,750 (850)	34.1 (13.4)	22.7 (8.9)
72	26.0 (1.02)	652 (438)	16,800 (3,800)	4,200 (900)	39.0 (15.4)	26.0 (10.2)

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

(5.6a) B-Series Breakout – Riser Rated Tray Cables

Cable Characteristics: Breakout Tray Cables (with 2.5mm 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)
2	7.0 (0.28)	41 (28)	1,200 (270)	500 (110)	10.5 (4.1)	7.0 (2.8)
4	8.3 (0.33)	68 (46)	2,000 (450)	800 (180)	12.5 (4.9)	8.3 (3.3)
6	9.6 (0.38)	88 (59)	3,000 (670)	1,200 (270)	14.4 (5.7)	9.6 (3.8)
8	11.6 (0.46)	133 (89)	4,000 (900)	1,700 (380)	17.4 (6.9)	11.6 (4.6)
12	14.1 (0.55)	159 (107)	6,000 (1,350)	2,500 (560)	21.2 (8.3)	14.1 (5.5)
18	15.3 (0.60)	226 (152)	8,000 (1,800)	3,500 (790)	23.0 (9.1)	15.3 (6.0)
24	17.6 (0.69)	292 (196)	10,000 (2,250)	3,800 (850)	26.4 (10.4)	17.6 (6.9)
30	20.9 (0.82)	383 (257)	14,000 (3,150)	6,000 (1,350)	31.4 (12.3)	20.9 (8.2)
36	20.9 (0.82)	375 (252)	14,000 (3,150)	6,000 (1,350)	31.4 (12.3)	20.9 (8.2)
48	24.2 (0.95)	501 (336)	18,000 (4,050)	7,500 (1,690)	36.3 (14.3)	24.2 (9.5)
60	28.5 (1.12)	773 (519)	22,000 (4,950)	8,800 (1,980)	42.8 (16.8)	28.5 (11.2)
72	28.9 (1.14)	768 (516)	26,000 (5,845)	11,000 (2,470)	43.4 (17.1)	28.9 (11.4)

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

Ordering Information

	B					J				9	K	R
Digit No:	1	2	3	4	5	6	7	8	9	10	11	12

- 1 – 2 Breakout Series Ultra-Fox Tray Cables:
2.0mm Subcables = **BE**
2.5mm Subcables = **BX**
- 3 – 5 Fiber count: (see cable characteristics chart) = **002–072**
- 6 Jacket type: Indoor/Outdoor Tray = **J**
- 7 – 9 Fiber type: (see Laser Ultra-Fox Fiber Performance Table, pg. 206)
- 10 Ultra-Fox fiber with 900µm tight-buffer = **9**
- 11 Standard jacket color: Black = **K**
- 12 Rating: Riser = **R**

Example: 12-fiber riser rated tray cable using OM3 laser optimized bend-insensitive fiber, Ultra-Fox, 2.5mm subcable, black jacket

B	X	0	1	2	J	A	L	T	9	K	R
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