Features and Benefits

- TBR Breakout Riser Cables - OFNR FT-4 riser ratings
- TBP Breakout Plenum Cables - OFNP FT-6 plenum ratings
- Rugged individual fiber protection
- Easily terminated
- Available in two breakout sizes

Applications

- (TBR) Horizontal (not air return) or vertical cabling
- (TBR) OFNR riser apllications
- (TBR) Heavy duty building backbones
- (TBP) Air return plenum installations
- Applications requiring rugged termination s

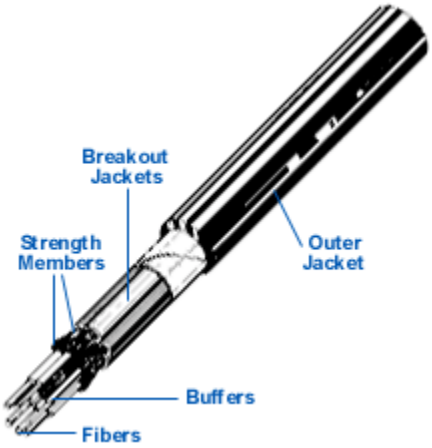
TBR Premise Plenum Cables

BICC General

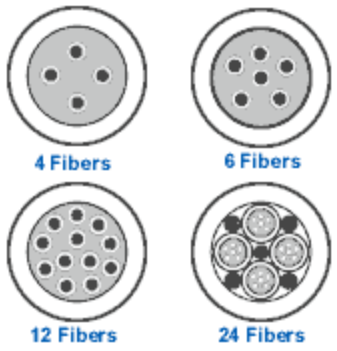
TBR Breakout Riser Cables are designed for intrabuilding applications where fiber optic backbones or OFNR rated cables are required. They provide rugged sub-components for high strength connections.

TBP Breakout Plenum Cables are designed for intrabuilding applications where installation is required in air return areas without conduit. They provide low smoke and fire retardancy characteristics and are easily terminated.

The design for both consists of individual components with a tight buffered fiber and aramid yarn strength members within a flexible jacket. Multiple breakout units are combined within one outer jacket. These fiber breakouts are easily identified, separated and terminated with standard fiber optic connectors.



Typical Cross Sections



MECHANICAL SPECIFICATIONS

No. of Fibers	GP Part Number*	Nom. Cable Diameter Inch (mm)	Nom. Cable Weight Lbs/1000' (kg/km)	Max. Tensile Load Installation Lbsf (N)	Max. Tensile Load In-service Lbsf (N)	Min. Bend Radius Installation Inch (cm)	Min. Bend Radius In-Service Inch (cm)
2	XX0021B3R or B1U	0.275 (7.0)	27 (40)	270 (1200)	110 (490)	5.5 (14.0)	2.8 (7.1)
4	XX0041B3R or B1U	0.315 (8.0)	36 (54)	450 (2000)	180 (800)	6.3 (16.0)	3.2 (8.1)
6	XX0061B3R or B1U	0.377 (9.6)	50 (74)	450 (2000)	180 (800)	7.5 (19.1)	3.8 (9.7)
8	XX0081B3R or B1U	0.440 (11.2)	69 (103)	600 (2670)	200 (800)	8.8 (22.4)	4.4 (11.2)
10	XX0101B3R or B1U	0.500 (12.7)	98 (146)	675 (3000)	270 (1200)	10.0 (25.4)	5.0 (12.7)
12	XX0121B3R or B1U	0.514 (13.1)	104 (155)	790 (3515)	270 (1200)	10.3 (26.2)	5.1 (13.0)
18	XX0181B3R or B1D	0.590 (15.0)	118 (176)	1000 (4450)	400 (1780)	11.8 (30.0)	5.9 (15.0)
24	XX0241B3R or B1D	0.678 (17.2)	156 (232)	1230 (5470)	450 (2000)	13.6 (34.5)	6.8 (17.3)
36	XX0361B3R or B1D	0.692 (17.6)	190 (283)	1328 (5910)	490 (2180)	13.8 (35.2)	6.9 (17.5)
48	XX0481B3R or B1D	0.720 (18.3)	211 (314)	1425 (6340)	525 (2335)	14.4 (36.6)	7.2 (18.3)

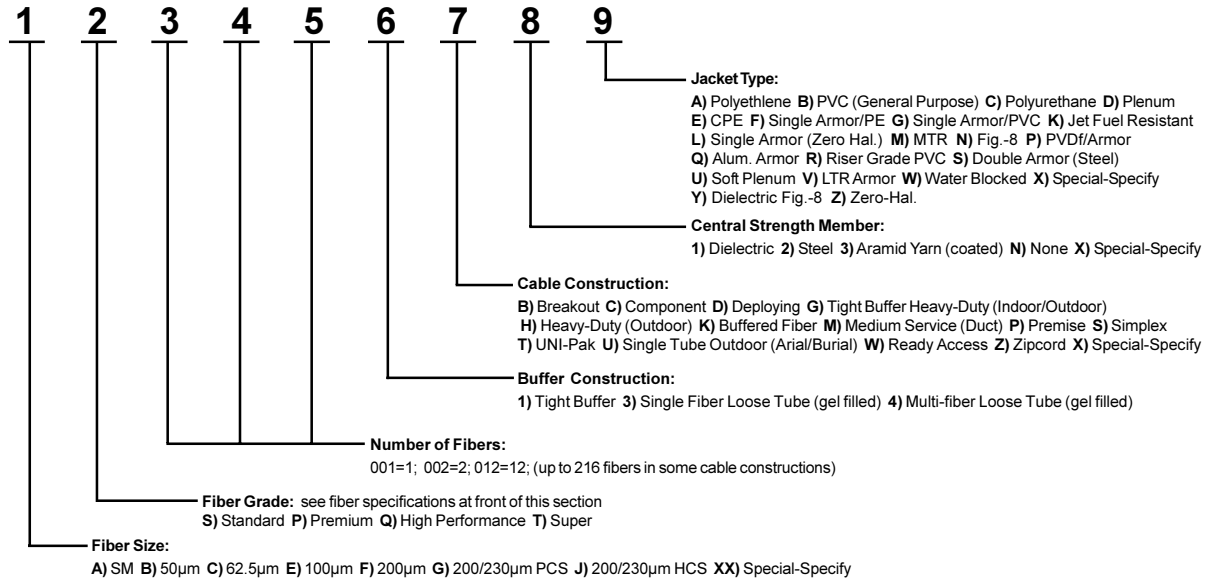
* XX denotes fiber type

GENERAL SPECIFICATIONS

- **Temperature:**
  -40°C (-40°F) to 80°C (176°F) Storage
  -20°C (-4°F) to 80°C (176°F) In-Service
- **Ratings:**
  TBR: UL-1666 OFNR per
  NEC 770-51(b) and 770-53(b)
- **TBP**
  UL-910 OFNP per NEC 770-51(a) and
  770-53(a)
- **Central Strength Member:**
  Aramid fiber yarn
- **Break-out Units:**
  Jacketed buffered fibers with Aramid yarn
- **Jacket:**
  Flame retardant PVC or (for TBP Fluoropolymer
- **Maximum Crush Resistance:**
  1000 Lbsf/inch (1750 N/cm)
- **Maximum Vertical Rise:**
  1640 feet (500 meters)

ORDERING INFORMATION

Cable Part Numbering System



Color Coding

All BICC General cables, unless customized, follow the industry standard color code system for easy identification. Cables with 12 or fewer individual components will follow the color sequence: Blue, Orange, Green, Brown, Slate White, Red, Black, Yellow, Violet, Pink, Aqua.

For cables having more than 12 fibers, grouping is done following the same sequence for the subgroup and for the fibers within it. Example: 24 fiber loose tube cable with six fibers in each of four tubes–Tube colors will be blue, orange, green and brown. Each tube will have one each of fibers in the first six colors (blue, orange, green, brown, slate, white). Fibers are then identified by tube color/fiber color–blue/white being the white fiber in the blue tube.

When cables have more than 144 fibers, a black stripe is added to each of the first six colors in order to make 18 recognizable subgroups.

In some cable designs, jacketed subgroups may be numbered for identification in lieu of color coding.

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