

# Draka Comteq Premise Distribution Cable

Draka Comteq tight-buffered premises distribution cables are designed for installation in riser and plenum environments and intrabuilding backbone structures. They are ideal for indoor placement in raceways, trays and conduit; if used outdoors, Draka Comteq recommends that these cables be placed in conduit below the frost line.

The cable consists of 900 mm buffered fibers surrounded by aramid strength yarns and a jacket made of state-of-the-art polymer material. Color-coded fibers and subunits assist with identification. Tight buffering of fibers speeds connections and makes the cable very flexible, saving time during installation.

These cables support all high-speed data communications protocols, including Ethernet, Gigabit Ethernet, ATM, FDDI, token ring, and fiber channel.

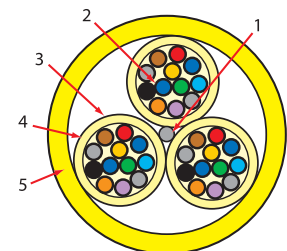
Draka Comteq premises distribution cables are available in fiber counts ranging from 12 to 144 and with your choice of world class Draka Comteq fibers including standard singlemode, Enhanced Singlemode, and multimode fibers—or a combination of these.

Features	Benefits
Flexible, small diameter	> Easy to install and terminate, saving time and cost
High tensile strength	> Rugged and reliable > Greater pulling distances, reducing installation time
UL rated	> Safe for indoor use in riser and plenum applications
Optical fibers feature patented AFC™ coating with ColorLock™	> Fiber maintains optical performance and color vibrancy with age



Draka Comteq optical cable products are designed for optimum performance and ease of installation, in accordance with applicable industry technical specifications, standards, and references.

- 1. Central Strength Members**  
Provide tensile strength and buckling resistance
- 2. Buffered Fiber**  
900 mm buffered fiber. Draka Comteq's world-class color-coded singlemode optical fibers incorporate AFC™ coating with ColorLock™ for industry-leading long-term mechanical performance and color identification
- 3. Aramid Filled Subunit**  
Aramid yarns provide tensile strength
- 4. PVC Subunit Jacket**
- 5. Flame-Retardant Jacket**  
Riser or plenum rated polyvinyl chloride (PVC) material



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## Cable Dimensions and Properties

The following tables provide information on standard all-dielectric configurations. Custom configurations are available including armored designs and designs with low smoke zero halogen jackets.

### Riser and Plenum Rated

Part Number	Fiber Count	Cable Outer Diameter		Cable Weight		Minimum Bend Radius			
		in	mm	lb/ft	kg/km	in		mm	
						With Load	No Load	With Load	No Load
<b>RISER RATED</b>									
A-XX-TBR-1JKT-###	12	0.28	7.1	32	48	4	3	106	71
A-XX-TBR-1JKT-###	24	0.46x0.25	11.6x6.4	49	73	4	3	96	64
A-XX-TBR-1JKT-###	36	0.56	14.1	87	130	6	5	211	142
A-XX-TBR-1JKT-###	48	0.59	15.0	130	193	9	6	225	150
A-XX-TBR-1JKT-###	60	0.66	16.7	157	234	10	7	250	167
A-XX-TBR-1JKT-###	72	0.73	18.6	191	285	11	7	279	186
A-XX-TBR-1JKT-###	84	0.78	19.8	227	338	12	8	297	198
A-XX-TBR-1JKT-###	96	0.88	22.3	268	399	13	9	335	223
A-XX-TBR-1JKT-###	108	0.89	22.7	315	469	13	9	341	227
A-XX-TBR-1JKT-###	120-144	0.94	23.9	289	430	14	9	358	239
<b>PLENUM RATED</b>									
A-XX-TBP-1JKT-###	12	0.21	5.2	17	25	3	2	78	52
A-XX-TBP-1JKT-###	24	0.45x0.25	11.5x6.4	64	95	8	5	198	132
A-XX-TBP-1JKT-###	36	0.62	15.7	115	171	8	5	197	132
A-XX-TBP-1JKT-###	48	0.57	14.4	132	196	9	6	215	144
A-XX-TBP-1JKT-###	60	0.62	15.8	166	247	9	6	238	158
A-XX-TBP-1JKT-###	72	0.70	17.7	216	322	11	7	266	177
A-XX-TBP-1JKT-###	96	0.83	21.1	218	325	13	8	318	211
A-XX-TBP-1JKT-###	144	0.92	23.4	328	489	14	9	351	234

### Part Number Guide

A particular part number is NOT complete until you select a fiber count and fiber type

- > A = printed in feet
- M = printed in meters
- > XX = fiber type
  - SF = standard singlemode
  - ES = Enhanced Singlemode
  - 5S = 50/125 multimode
  - 6S = 62.5/125 multimode
  - 5G = GLight 50/125 multimode
  - 6G = GLight 62.5/125 multimode
  - 10G = GLight 10 Gbps 50/125 multimode
- > TBR = tight buffer riser
- TBP = tight buffer plenum
- > 1JKT = non-armored (dielectric)
- > ### = fiber count

### Mechanical Specifications

#### Installation—Riser

- > Maximum installation load:
  - 12 fiber: 150 lbf (660 N)
  - 24-144 fiber: 300 lbf (1320 N)
- > Maximum operation load:
  - 12 fiber: 45 lbf (198 N)
  - 24-144 fiber: 90 lbf (396 N)

#### Installation—Plenum

- > Maximum installation load:
  - 12 fiber: 100 lbf (440 N)
  - 24-144 fiber: 150 lbf (660 N)
- > Maximum operation load:
  - 12 fiber: 30 lbf (132 N)
  - 24-144 fiber: 45 lbf (198 N)

#### Temperature Range

- > Shipping and storage: -40° C to +85° C
- > Operating: -20° C to +75° C

### Attenuation

For singlemode fiber:  
 @1310 nm: 1.0 dB/km  
 @1550 nm: 1.0 dB/km  
 (For other values, contact your Draka Comteq sales representative)  
**Complies with Telcordia GR-20, ANSI/ICEA S-87-640, and IEC 60794 performance requirements**

### For Additional Information

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