

# Draka Comteq EZ Prep™ Loose Tube Cable

Suitable for aerial, buried and duct applications, loose tube cables are the most widely used in the industry today.

EZ Prep Loose Tube cables are recommended for applications requiring midspan entry. EZ Prep loose tube cable bonds the jacket to the armor with an adhesive to make it easier to remove the jacket and access the cable core. EZ Prep is especially recommended for fiber to the premise applications.

Draka Comteq EZ Prep Loose Tube cables are available in a wide range of fiber counts ranging from 2 to 432, and a variety of standard and custom configurations to support multiple applications including long haul, metropolitan and access networks. These versatile, reliable cables provide ease of installation, maintenance, and mid-span access.

Draka Comteq EZ Prep Loose Tube cables are available with your choice of world-class Draka Comteq fibers including standard singlemode, Enhanced Singlemode, TeraLight™ Metro NZDSF and TeraLight™ Ultra NZDSF, multimode or a combination of these.

Features	Benefits
Adhesive bonded armor and jacket	> Allows easy midspan cable entry
ABM™ buffer tube material	> Greater flexibility, reliability, kink-resistance, and ease of midspan access
2.5mm buffer tube	> 14% smaller diameter > 20% lighter weight > 25% smaller volume
Advanced “dry” water blocking materials	> Faster and cleaner handling and access to fibers in the field
Fibers in individual buffer tubes	> Ease of installation, identification, and routing
Colored high-strength ripcords	> Ease of identification and access through jacket or armor
Standards compliance	> High reliability and ruggedness
Optical fibers feature patented ColorLock™ coating	> Fiber maintains optical performance and color vibrancy with aging



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

### 1. Central Strength Member

Provides tensile strength and buckling resistance

### 2. Optical Fibers

Draka Comteq’s world-class color-coded singlemode optical fibers incorporate ColorLock™ coating for industry-leading long-term mechanical performance and color identification

### 3. Color-Coded Buffer Tubes

Protect fibers from tensile, thermal, and vibration loads, maintaining their optical and mechanical integrity

### 4. Water Blocking Material

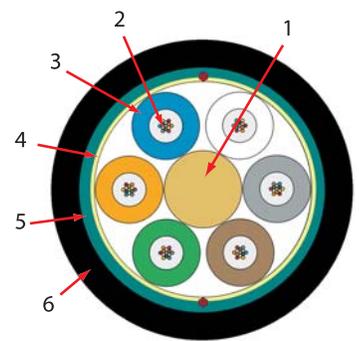
Advanced “dry” material prevents water ingress.

### 5. Armor (optional)

Corrugated steel tape for additional protection in buried environments. Adhesive bond to jacket for easy midspan cable entry.

### 6. Outer Jacket

Non-reclaimed high quality polyethylene.



# Draka Comteq EZ Prep Loose Tube Cable

The following tables provide information on standard cable configurations. Custom configurations are available

including designs with metallic central strength member (CSM) and different jacket configurations.

## Cable Dimensions and Properties

### Dielectric (Non-Armored) F-ETH1JKT-12

Fiber Count	# of Buffer Tubes	Cable Outer Diameter		Cable Weight		Minimum Bend Radius			
		in	mm	lb/kft	kg/km	in		mm	
						With Load	No Load	With Load	No Load
2 to 60	5	0.41	10.5	50	74	8	4	210	110
62 to 72	6	0.45	11.4	62	93	9	4	230	110
74 to 84	7	0.48	12.1	69	103	10	5	240	120
86 to 96	8	0.51	12.8	76	113	10	5	260	130
98 to 108	9	0.55	13.9	88	131	11	5	280	140
110 to 120	10	0.57	14.4	94	140	11	6	290	140
122 to 132	11	0.60	15.3	103	153	12	6	310	150
134 to 216	18	0.63	16.1	117	174	13	6	320	160
218 to 264	22	0.69	17.6	140	209	14	7	350	180
266 to 288	24	0.73	18.6	153	228	15	7	370	190
290 to 432*	18	0.73	18.6	153	228	15	7	370	190

### Single Jacket Armored (SP) F-ETH1A1J-12

Fiber Count	# of Buffer Tubes	Cable Outer Diameter		Cable Weight		Minimum Bend Radius			
		in	mm	lb/kft	kg/km	in		mm	
						With Load	No Load	With Load	No Load
2 to 60	5	0.45	11.5	89	133	9	7	230	170
62 to 72	6	0.50	12.7	106	157	10	8	250	190
74 to 84	7	0.53	13.5	116	172	11	8	270	200
86 to 96	8	0.56	14.2	125	186	11	8	280	210
98 to 108	9	0.60	15.2	141	209	12	9	310	230
110 to 120	10	0.63	16.0	151	225	13	9	320	240
122 to 132	11	0.66	16.8	161	240	13	10	340	250
134 to 216	18	0.69	17.5	179	266	14	10	350	260
218 to 264	22	0.76	19.3	209	311	15	11	390	290
266 to 288	24	0.78	19.8	225	333	16	12	410	310
290 to 432*	18	0.80	20.3	225	335	16	12	410	310

\*Cables with fiber counts greater than 288 contain 24 fibers in a larger PBT buffer tube with 12 fiber binder groups.

# Draka Comteq EZ Prep Loose Tube Cable

## Cable Dimensions and Properties

### Double Jacket Armored (PSP) F-ETH1A2J-12

Fiber Count	# of Buffer Tubes	Cable Outer Diameter		Cable Weight		Minimum Bend Radius			
		in	mm	lb/ft	kg/km	in		mm	
						With Load	No Load	With Load	No Load
2 to 60	5	0.52	13.3	107	159	11	8	270	200
62 to 72	6	0.54	13.8	130	193	11	8	280	210
74 to 84	7	0.57	14.6	141	209	12	9	290	220
86 to 96	8	0.60	15.3	152	226	12	9	310	230
98 to 108	9	0.64	16.3	168	250	13	10	330	250
110 to 120	10	0.66	16.8	177	264	13	10	340	260
122 to 132	11	0.70	17.9	193	287	14	11	360	270
134 to 216	18	0.73	18.6	211	314	15	11	380	280
218 to 264	22	0.79	20.1	243	361	16	12	410	300
266 to 288	24	0.83	21.2	260	387	17	13	430	320

### Double Jacket Double Armored (SPSP) F-ETH2A2J-12

Fiber Count	# of Buffer Tubes	Cable Outer Diameter		Cable Weight		Minimum Bend Radius			
		in	mm	lb/ft	kg/km	in		mm	
						With Load	No Load	With Load	No Load
4 to 60	5	0.62	15.8	176	262	13	10	330	250
62 to 72	6	0.66	16.8	218	324	14	10	340	260
74 to 84	7	0.69	17.6	232	346	14	11	360	270
86 to 96	8	0.72	18.4	248	369	15	11	380	280
98 to 108	9	0.76	19.4	271	403	16	12	400	300
110 to 120	10	0.79	20.1	286	425	16	12	410	310
122 to 132	11	0.82	20.9	302	450	17	13	430	320
134 to 216	18	0.85	21.7	324	482	17	13	440	330
218 to 264	22	0.92	23.4	367	547	19	14	480	360
266 to 288	24	0.96	24.5	391	581	20	15	500	370

#### For Additional Information

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# Draka Comteq EZ Prep Loose Tube Cable

## Cable Dimensions and Properties

### Triple Jacket Double Armored (PSPSP) F-ETH2A3J-12

Fiber Count	# of Buffer Tubes	Cable Outer Diameter		Cable Weight		Minimum Bend Radius			
		in	mm	lb/kft	kg/km	in		mm	
						With Load	No Load	With Load	No Load
2 to 60	5	0.68	17.3	200	297	14	10	360	270
60 to 72	6	0.71	18.1	246	367	14	11	370	280
74 to 84	7	0.74	18.9	262	389	15	11	380	290
86 to 96	8	0.77	19.6	279	415	16	12	400	300
98 to 108	9	0.81	20.7	302	449	16	12	420	310
110 to 120	10	0.83	21.2	315	468	17	13	430	320
122 to 132	11	0.87	22.2	338	502	18	13	450	340
134 to 216	18	0.90	22.9	360	536	18	14	460	350
218 to 264	22	0.96	24.5	402	598	19	15	490	370
266 to 288	24	1.00	25.5	426	634	20	15	510	380

Cables with fiber counts up to 288 contain 12 fibers in an ABM™ buffer tube. Weights given are for cables with a dielectric central strength member (CSM).

### Part Number Guide

Example: F-ETH1JKT-12-XX-###-YY

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

- > F = print in feet
- M = print in meters
- > ETH = EZ Prep loose tube, standard duct, aerial lashed and direct buried
- > 1JKT = non-armored (dielectric), PE sheath
- 1A1J = single armor single jacket (SP)
- 1A2J = single armor double jacket (PSP)
- 2A2J = double armor double jacket (SPSP)
- 2A3J = double armor triple jacket (PSPSP)
- > 12 = 12 fibers per tube
- > XX = fiber code (see table)
- > ### = fiber count
- > YY = category code (see table)

### Mechanical Specifications

#### Installation

- > Maximum installation load: 600 lbf (2700 N)
- > Maximum operation load: 180 lbf (800 N)

#### Temperature Range

- > Shipping and storage: -50° C to +75° C
- > Installation: -30° C to +60° C
- > Operating: -40° C to +70° C

(For alternative requirements contact your Draka Comteq sales representative)

**Complies with Telcordia GR-20, RUS CFR-1755-900 (PE90 listed), ANSI/ICEA S-87-640, and IECA 60794 performance requirements**

### Fiber Table Transmission Performance

Fiber Code	Category Code	Description	Wavelength (nm)	Attenuation (dB/km)	Bandwidth (MHz*km)	1 GE distance (m)	10 GE distance (m)
ES	E1	ESMF	1310/1383/1550	.40/.40/.30			
ES	E3	ESMF	1310/1383/1550	.35/.35/.25			
BB	B3	BendBright	1310/1383/1550	.35/.35/.25			
TM	M1	TeraLight Metro	1310/1550	.40/.25			
TU	UA	TeraLight Ultra	1310/1550	.40/.25			
5S	51	50/125 Multimode	850/1300	3.5/1.5	500/500	550/550	82/- -
6S	61	62.5/125 Multimode	850/1300	3.5/1.0	200/500	300/550	33/- -
5H	71	50 HiCap	850/1300	3.5/1.5	600/1200	750/2000	110/- -
6H	81	62 HiCap	850/1300	3.5/1.0	350/600	500/1000	65/- -
53	92	50 MaxCap	850/1300	3.5/1.5	1500/500	900/550	300/- -
55	93	50 MaxCap	850/1300	3.5/1.5	3500/500	1500/550	550/- -