Product Description

Single loose tube cables offer a low cost alternative to traditional stranded loose tube cables and the armor provides additional protection for certain environments. The highly flexible single tube reduces installation problems. The loose tube design offers reliable transmission performance over a broad temperature range. The single flex tube design features optical fibers placed inside a single PFM™ gel-filled tube. The core tube includes up to 8-fiber bundles, each containing up to 12 optical fibers bound with a color coded binder. The core is wrapped with flexible strength members covered with a water-blocking tape, a corrugated steel armor is applied and then encased with a black jacket containing rigid steel rods. Rip cords are included under the armor for ease of access to the core tube.
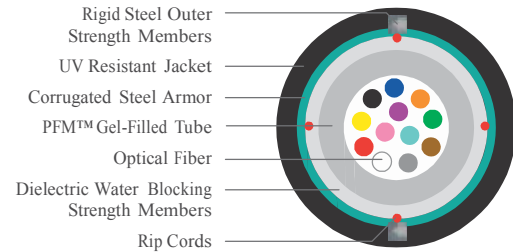
Applications

• Direct bury, underground duct and lashed aerial
• Trunk, distribution and feeder cable
• Local loop, metro, long-haul and broadband network

Features	Benefits
• Available with up to 96-fiber	• High fiber density
• Multiple fiber types	• Multiple network applications
• Metallic outer strength members	• Offers ease of location
• Dry (SAP) core standard	• Reduces cable prep and installation time
• Highly flexible	• Easy handling
• Small cable diameter	• Installation of more fibers in less space
• Fewer cable components	• Reduces cost
• Corrugated Armor	• Improves compressive strength and rodent protection
• PFM gel	• Non-sticky gel speeds fiber access and clean-up

Rigid Steel Outer Strength Members
UV Resistant Jacket
Corrugated Steel Armor
PFM™ Gel-Filled Tube
Optical Fiber
Dielectric Water Blocking Strength Members
Rip Cords

Specifications

Fiber Count	Available in 6-fiber up to 96-fiber
Standards Compliance	Telcordia GR-20-CORE RDUP PE-90 Designation SLT ICEA S-87-640-2006 RoHS-compliant

Environmental Specifications

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

Part Numbers and Physical Characteristics

Part Number[1]	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Maximum Tensile Loading Install lbs (N)	Maximum Tensile Loading Long Term lbs (N)	Minimum Bend Radius Install in (mm)	Minimum Bend Radius Long Term in (mm)
1F2006xxS1	6	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
1F2012xxS1	12	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
1F2024xxS1	24	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
1F2036xxS1	36	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
1F2048xxS1	48	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
1F2072xxS1	72	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
1F2096xxS1	96	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)

Part Number Key

F	2	_	_	_	x	x	S	_
1	2	3	4	5	6	7	8	9
Product family		Fiber count (006-096)			Fiber type	Internal designator		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.
See "Optical Fiber Cable" options in the "Technical Information" section for flooding and jacket marking options.

Single Mode Optical Fiber Types

	Conventional	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	TeraFlex® Bend Resistant G.657.A2	TeraFlex® Bend Resistant G.657.B3	TeraFlex® Bend Resistant NZDS
[1]For ≤ 12 fibers replace "xx" with:	96	36	26	K6	J6	L6	86
[1]For > 12 fibers replace "xx" with:	91	31	21	K1	J1	L1	81

Multimode Optical Fiber Types

	TeraGain® 62.5/125	TeraGain Laser Optimized 50/125 10G/150	TeraGain Laser Optimized 50/125 10G/300	TeraGain Laser Optimized 50/125 10G/550
[1]Replace "xx" with:	6G	AG	BG	FG