> FiberWay™ Product Overview

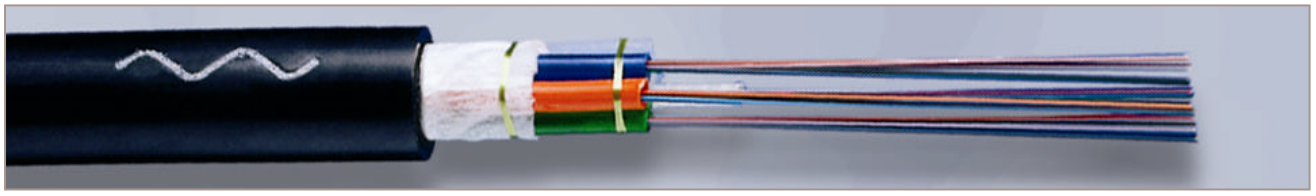
Application	Features Design	Dry Core	Rodent Protection		Termite Protection	Moisture Barrier	Oil resistant	Self-Supporting	Designed for Mini Ducts
			dielectric	metallic					
Duct & Buried	A-DQ(ZN)2Y...LG FWLT##-#001 SLT design	■							
	A-DQ(BN)2Y...LG FWLT##-#003 SLT design	■	■						
	A-DQ(ZN)2Y4Y...LG FWLT##-#004 SLT design	■			■		■		
	A-DQ(ZN)(L)2Y...LG FWLT##-#002 SLT design	■				■			
	A-DQ(ZN)(SR)2Y...LG FWLT##-#005 SLT design	■		■					
	A-DQ(ZN)2Y(SR)2Y...LG FWLT##-#006 SLT design	■		■					
	A-D(ZM)(SG)2Y FWCT##-#001 CT design			■					
	Mini Xtend SLT FWML##-#001 SLT design	■							■
	Mini Xtend CT FWMC##-#001 CT design								■
Aerial	A-D(T)2Y 5,4 mm^2 FWAC##-#001 ADSS, CT design							■	
	A-D(T)2Y 7,2 mm^2 FWAC##-#002 ADSS, CT design							■	
	A-D(T)2Y 15 mm^2 FWAC##-#003 ADSS, CT design							■	
	A-DQT2Y...LG FWFL##-#001 Figure-8, SLT design	■							

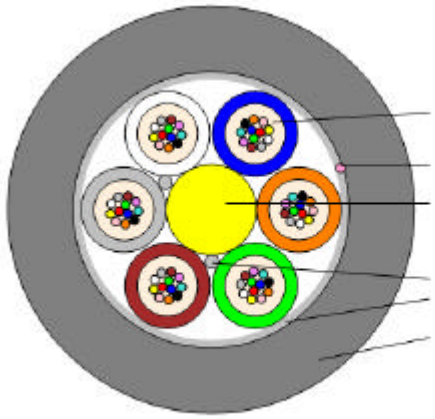
■ =>The product conforms to the listed feature.

Fiber Optic Duct Cable

stranded loose tube design, non-metallic, dry core

A-DQ(ZN)2Y...LG





Applications

- Blowing into duct systems
- Pulling into duct systems
- Laying in concrete channels
- Laying on cable racks

Special features

- Single-layer stranded construction (up to 144 fibers)
- Double-layer stranded construction (>144 fibers, up to 288 fibers)
- Non-metallic construction
- No problems with grounding or potential equalization
- Dry core construction
- Particularly light, thin and robust cable
- Also available with LSZH jacket

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5°C to 50°C
Operation	–30°C to 70°C
Transport and storage	–40°C to 70°C

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

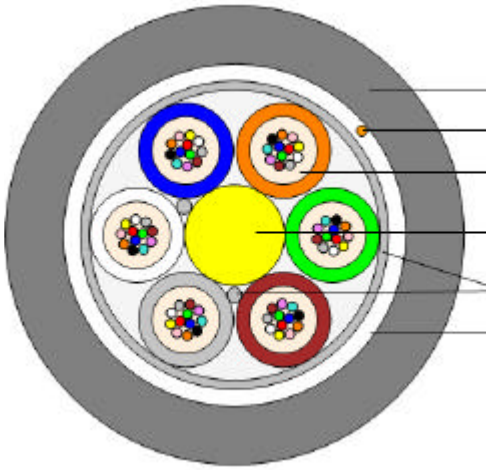
Ordering number	Number of fibers	Fibers per loose buffer tube	Number of loose buffer tubes	Number of stranding elements	Outer Ø (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWLT01-S0012-U001	12	12	1	6	11.2	91	2700	170
FWLT01-S0024-U001	24	12	2	6	11.2	91	2700	170
FWLT01-S0036-U001	36	12	3	6	11.2	91	2700	170
FWLT01-S0048-U001	48	12	4	6	11.2	91	2700	170
FWLT01-S0060-U001	60	12	5	6	11.2	91	2700	170
FWLT01-S0072-U001	72	12	6	6	11.2	91	2700	170
FWLT01-S0096-U001	96	12	8	8	12.7	125	2700	195
FWLT01-S0120-U001	120	12	10	10	14.3	155	2700	215
FWLT01-S0144-U001	144	12	12	12	16.0	190	2700	245
FWLT01-S0192-U001	192	12	16	16	16.6	190	2700	250
FWLT01-S0216-U001	216	12	18	18	16.6	190	2700	250
FWLT01-S0288-U001	288	12	24	24	18.9	250	2700	285

Other attenuation values, fiber counts, fiber types, cable designs and color codes on request.

Fiber Optic Duct Cable

stranded loose tube design, non-metallic, dry core, rodent protection

A-DQ(BN)2Y...LG



Applications

- Pulling into duct systems
- Laying in concrete channels
- Laying on cable racks
- In areas with rodents
- Direct buried in sand beds

Special features

- Single-layer stranded construction (up to 144 fibers)
- Double-layer stranded construction (>144 fibers, up to 288 fibers)
- Non-metallic construction
- No problems with grounding or potential equalization
- Dry core construction
- Rodent protection provided by laminated glass yarn
- Light, thin and robust cable
- Also available with LSZH jacket

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5ºC to 50ºC
Operation	–30ºC to 70ºC
Transport and storage	–40ºC to 70ºC

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

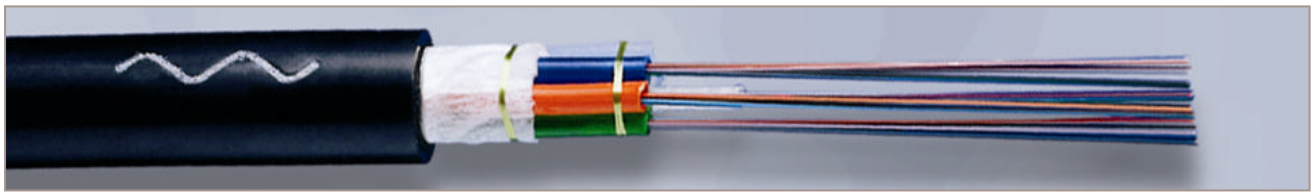
Ordering number	Number of fibers	Fibers per loose buffer tube	Number of loose buffer tubes	Number of stranding elements	OuterØ (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWLT01-S0012-U003	12	12	1	6	11.6	110	4000	210
FWLT01-S0024-U003	24	12	2	6	11.6	110	4000	210
FWLT01-S0036-U003	36	12	3	6	11.6	110	4000	210
FWLT01-S0048-U003	48	12	4	6	11.6	110	4000	210
FWLT01-S0060-U003	60	12	5	6	11.6	110	4000	210
FWLT01-S0072-U003	72	12	6	6	11.6	110	4000	210
FWLT01-S0096-U003	96	12	8	8	13.1	140	5000	230
FWLT01-S0120-U003	120	12	10	10	14.7	175	5000	260
FWLT01-S0144-U003	144	12	12	12	16.4	215	5000	290
FWLT01-S0192-U003	192	12	16	16	17.0	215	5000	300
FWLT01-S0216-U003	216	12	18	18	17.0	215	5000	300
FWLT01-S0288-U003	288	12	24	24	19.3	280	5000	340

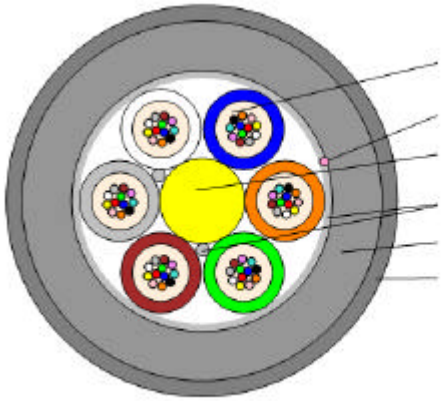
Other attenuation values, fiber counts, fiber types,cable designs and color codes on request.

Fiber Optic Duct Cable

stranded loose tube design, non-metallic, dry core, rodent protection, oil-resistant

A-DQ(ZN)2Y4Y...LG





Applications

- Pulling into duct systems
- Laying in concrete channels
- Laying on cable racks
- In areas with rodents
- Direct buried in sand beds

Special features

- Single-layer stranded construction (up to 144 fibers)
- Double-layer stranded construction (>144 fibers, up to 288 fibers)
- Non-metallic construction
- No problems with grounding or potential equalization
- Dry core construction
- Rodent protection provided by Polyamide jacket
- Oil-resistant, secure against termites
- Light, thin and robust cable

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5°C to 50°C
Operation	–30°C to 70°C
Transport and storage	–40°C to 70°C

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

Ordering number	Number of fibers	Fibers per loose buffer tube	Number of loose buffer tubes	Number of stranding elements	Outer Ø (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWLT01-S0012-U004	12	12	1	6	12.2	110	2700	185
FWLT01-S0024-U004	24	12	2	6	12.2	110	2700	185
FWLT01-S0036-U004	36	12	3	6	12.2	110	2700	185
FWLT01-S0048-U004	48	12	4	6	12.2	110	2700	185
FWLT01-S0060-U004	60	12	5	6	12.2	110	2700	185
FWLT01-S0072-U004	72	12	6	6	12.2	110	2700	185
FWLT01-S0096-U004	96	12	8	8	13.7	150	2700	210
FWLT01-S0120-U004	120	12	10	10	15.3	180	2700	230
FWLT01-S0144-U004	144	12	12	12	17.0	220	2700	260
FWLT01-S0192-U004	192	12	16	16	17.6	220	2700	270
FWLT01-S0216-U004	216	12	18	18	17.6	220	2700	270
FWLT01-S0288-U004	288	12	24	24	19.9	280	2700	300

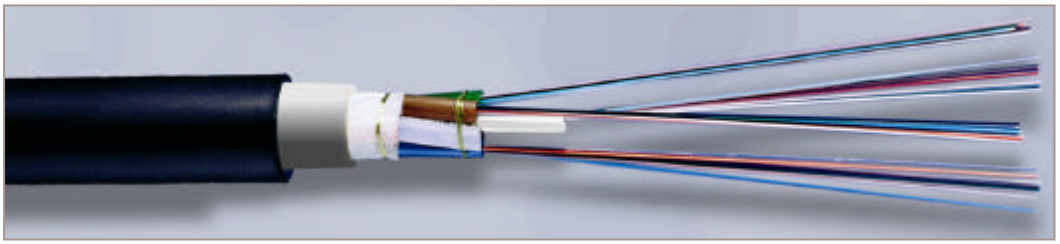
Other attenuation values, fiber counts, fiber types,cable designs and color codes on request.

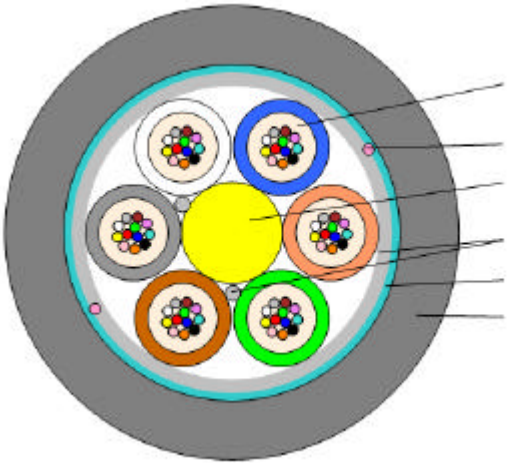
FWLT01-U004 - 10/2003

Fiber Optic Duct Cable

stranded loose tube design, non-metallic central member, dry core, moisture barrier

A-DQ(ZN)(L)2Y...LG





Applications

- Pulling into duct systems
- Laying in concrete channels
- Laying on cable racks

Special features

- Single-layer stranded construction (up to 144 fibers)
- Double-layer stranded construction (>144 fibers, up to 288 fibers)
- Laminated aluminium tape as additional moisture barrier
- Dry core construction
- Light, thin and robust cable

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5ºC to 50ºC
Operation	–30ºC to 70ºC
Transport and storage	–40ºC to 70ºC

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

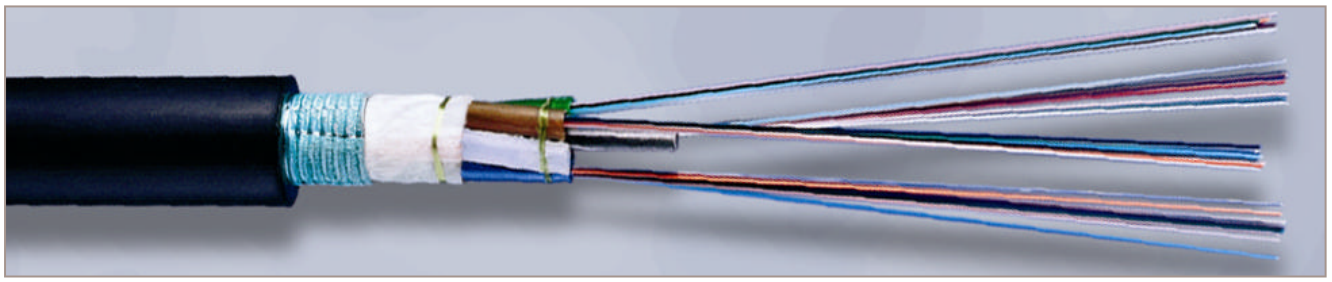
Ordering number	Number of fibers	Fibers per loose buffer tube	Number of loose buffer tubes	Number of stranding elements	Outer Ø (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWLT01-S0012-U002	12	12	1	6	12.2	115	2700	185
FWLT01-S0024-U002	24	12	2	6	12.2	115	2700	185
FWLT01-S0036-U002	36	12	3	6	12.2	115	2700	185
FWLT01-S0048-U002	48	12	4	6	12.2	115	2700	185
FWLT01-S0060-U002	60	12	5	6	12.2	115	2700	185
FWLT01-S0072-U002	72	12	6	6	12.2	115	2700	185
FWLT01-S0096-U002	96	12	8	8	13.7	150	2700	210
FWLT01-S0120-U002	120	12	10	10	15.3	180	2700	230
FWLT01-S0144-U002	144	12	12	12	17.0	220	2700	260
FWLT01-S0192-U002	192	12	16	16	17.6	220	2700	265
FWLT01-S0216-U002	216	12	18	18	17.6	220	2700	265
FWLT01-S0288-U002	288	12	24	24	19.9	290	2700	300

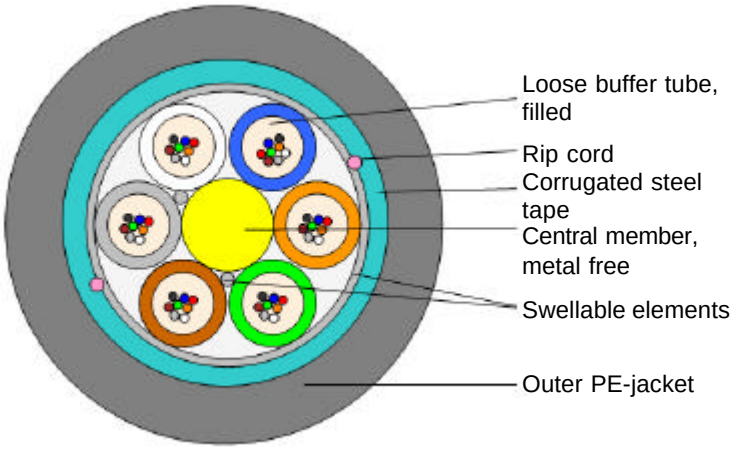
Other attenuation values, fiber counts, fiber types, cable designs and color codes on request.

Fiber Optic Buried Cable

stranded loose tube design, non-metallic central member, dry core, corrugated steel tape

A-DQ(ZN)(SR)2Y...LG





Applications

- Direct burial
- In applications with high mechanical loads
- In areas with rodents

Special features

- Single-layer stranded construction (up to 144 fibers)
- Double-layer stranded construction (>144 fibers, up to 288 fibers)
- Corrugated steel tape as protection against rodents and mechanical damage
- Thin and robust cable
- Also available with LSZH jacket

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5ºC to 50ºC
Operation	–30ºC to 70ºC
Transport and storage	–40ºC to 70ºC

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

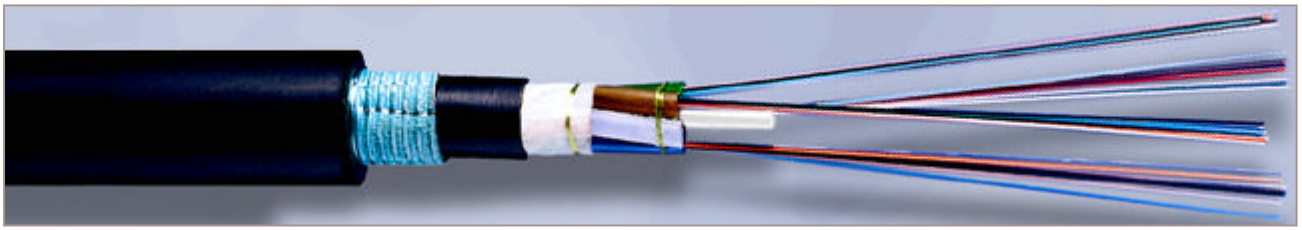
Ordering number	Number of fibers	Fibers per loose buffer tube	Number of loose buffer tubes	Number of stranding elements	Outer Ø (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWLT01-S0012-U005	12	12	1	6	12.3	145	2700	250
FWLT01-S0024-U005	24	12	2	6	12.3	145	2700	250
FWLT01-S0036-U005	36	12	3	6	12.3	145	2700	250
FWLT01-S0048-U005	48	12	4	6	12.3	145	2700	250
FWLT01-S0060-U005	60	12	5	6	12.3	145	2700	250
FWLT01-S0072-U005	72	12	6	6	12.3	145	2700	250
FWLT01-S0096-U005	96	12	8	8	13.8	180	2700	280
FWLT01-S0120-U005	120	12	10	10	15.4	220	2700	210
FWLT01-S0144-U005	144	12	12	12	17.1	260	2700	345
FWLT01-S0192-U005	192	12	16	16	17.7	265	2700	355
FWLT01-S0216-U005	216	12	18	18	17.7	265	2700	355
FWLT01-S0288-U005	288	12	24	24	20.0	335	2700	400

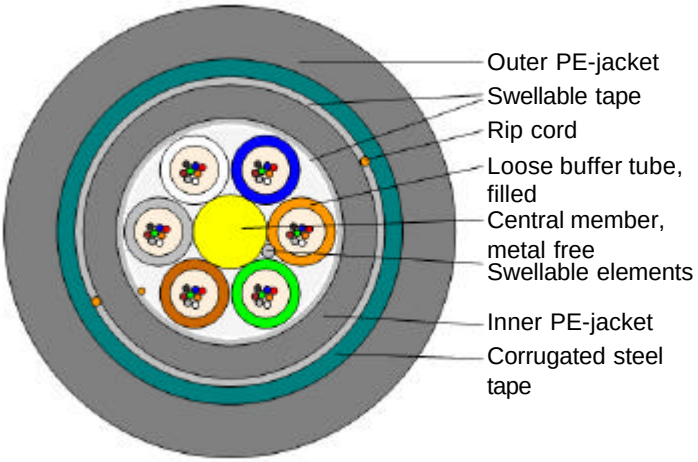
Other attenuation values, fiber counts, fiber types,cable designs and color codes on request.

Fiber Optic Buried Cable

stranded loose tube design, non-metallic central member,
dry core, corrugated steel tape, inner jacket

A-DQ(ZN)2Y(SR)2Y...LG





Applications

- Direct burial
- In areas with particularly high mechanical loads
- In areas with rodents

Special features

- Single-layer stranded construction (up to 144 fibers)
- Double-layer stranded construction (>144 fibers, up to 288 fibers)
- Corrugated steel tape as protection against rodents and mechanical damage
- Dry core construction
- Particularly robust cable

Test procedures to IEC 60793-1, 60794-1-1

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5ºC to 50ºC
Operation	–30ºC to 70ºC
Transport and storage	–40ºC to 70ºC

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standar single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

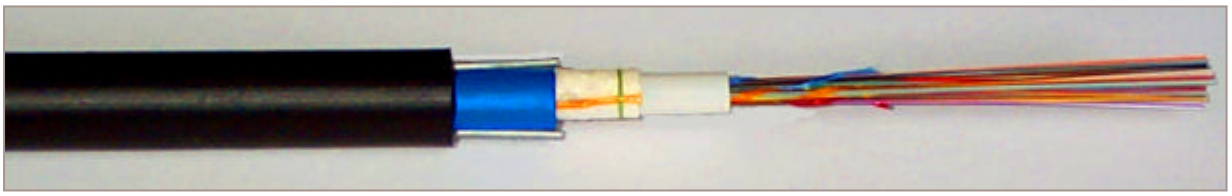
Ordering number	Number of fibers	Fibers per loose buffer tube	Number of loose buffer tubes	Number of stranding elements	OuterØ (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWLT01-S0012-U006	12	12	1	6	14.7	195	2700	295
FWLT01-S0024-U006	24	12	2	6	14.7	195	2700	295
FWLT01-S0036-U006	36	12	3	6	14.7	195	2700	295
FWLT01-S0048-U006	48	12	4	6	14.7	195	2700	295
FWLT01-S0060-U006	60	12	5	6	14.7	195	2700	295
FWLT01-S0072-U006	72	12	6	6	14.7	195	2700	295
FWLT01-S0096-U006	96	12	8	8	16.2	235	2700	195
FWLT01-S0120-U006	120	12	10	10	17.8	280	2700	215
FWLT01-S0144-U006	144	12	12	12	19.5	325	2700	245
FWLT01-S0192-U006	192	12	16	16	20.1	330	2700	250
FWLT01-S0216-U006	216	12	18	18	20.1	330	2700	250
FWLT01-S0288-U006	288	12	24	24	22.4	410	2700	285

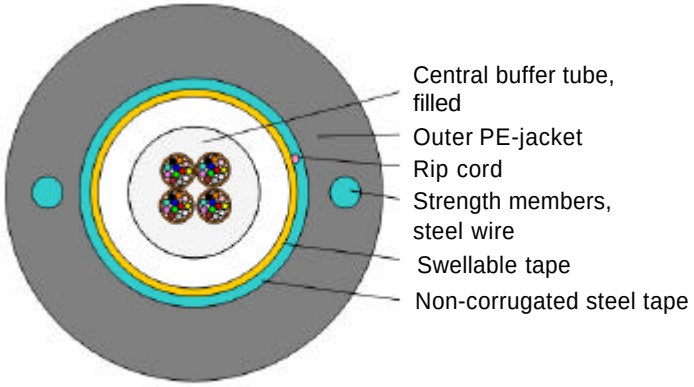
Other attenuation values, fiber counts, fiber types, cable designs and color codes on request.

Fiber Optic Buried Cable

central tube design, non-corrugated steel tape

A-D(ZM)(SG)2Y





Applications

- Direct burial
- In applications with high mechanical loads
- In areas with rodents

Special features

- Central tube construction
- Non-corrugated steel tape as protection against rodents and mechanical damage
- Thin and robust cable

Temperature range

Laying and installation	–5ºC to 50ºC
Operation	–30ºC to 70ºC
Transport and storage	–40ºC to 70ºC

Test procedures to IEC 60793-1 and 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Color code for fibers/fiber units:Telcordia (Bellcore)

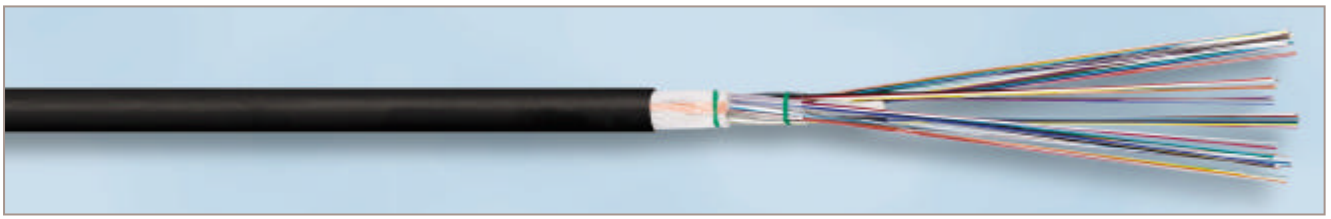
Product data

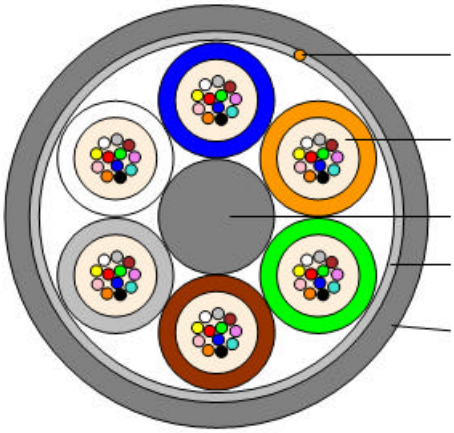
Ordering number	Number of fibers	Fibers per fiber bundle	Number of fiber bundle	Central buffer tube Ø (mm)	OuterØ (mm)	Net weight (kg/km)	Max. tensile load during installation (N)	Min. bending radius during installation (mm)
FWCT01-S0012-U001	12	12	1	3.0	8.8	85	2700	180
FWCT01-S0024-U001	24	12	2	3.5	9.6	95	2700	200
FWCT01-S0036-U001	36	12	3	5.0	10.8	125	2700	220
FWCT01-S0048-U001	48	12	4	5.0	10.8	125	2700	220

Other attenuation values, fiber counts, fiber types,cable designs and color codes on request.

Mini Xtend SLT

Small diameter stranded loose tube cable for fast installation into miniduct systems





Applications

- Ideally suited for installation into miniducts
- Incremental capacity installation capability results in reduced capital expenditure
- Suitable for Metro, Access or FTTx implementations

Special features

- Extremely compact; small diameter; low weight cables
- Reduced duct utilisation and easy installation
- Miniature stranded loose tube construction for easy mid-span access
- Fully dielectric construction requires no grounding

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5ºC to 50ºC
Operation	–30ºC to 70ºC
Transport and storage	–40ºC to 70ºC

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

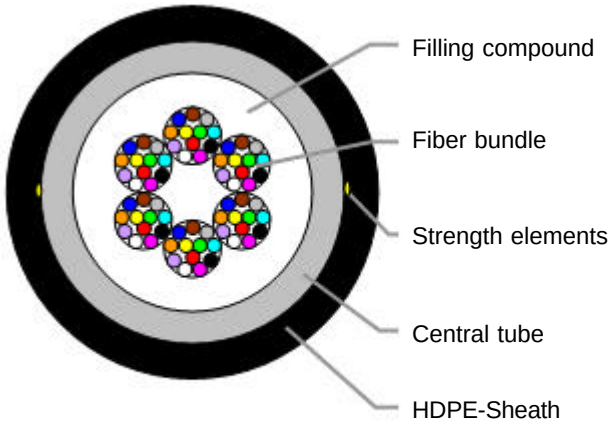
Ordering number	Number of fibers	Fibers per bundle	Number of fibers per bundle	OuterØ (mm)	Net weight (kg/km)	Tensile rating (N))	Min. bending radius during installation (mm)
FWML01-S0002-U001	2	2	1	6.2	30	900	90
FWML01-S0004-U001	4	4	1	6.2	30	900	90
FWML01-S0006-U001	6	6	1	6.2	30	900	90
FWML01-S0008-U001	8	8	1	6.2	30	900	90
FWML01-S0012-U001	12	12	1	6.2	30	900	90
FWML01-S0024-U001	24	12	2	6.2	30	900	90
FWML01-S0036-U001	36	12	3	6.2	30	900	90
FWML01-S0048-U001	48	12	4	6.2	30	900	90
FWML01-S0060-U001	60	12	5	6.2	30	900	90
FWML01-S0072-U001	72	12	6	6.2	30	900	90

Other attenuation values, fiber counts, fiber types, cable designs and color codes on request.

FWML01-U001 - 10/2003

Mini Xtend CT

Small diameter central tube cable for fast installation into miniduct systems



Applications

- Ideally suited for installation into miniducts
- Incremental capacity installation capability results in reduced capital expenditure
- Suitable for Metro, Access or FTTx implementations

Special features

- Extremely compact; small diameter; low weight cables
- Reduced duct utilisation and easy installation
- Fibre bundles are zig-zag bound resulting in easy identification
- Fully dielectric construction requires no grounding

Test procedures to IEC 60793-1, 60794-1-2

- Tensile strength
- Impact resistance
- Crush resistance
- Bending characteristics
- Temperature cycling
- Water penetration

Temperature range

Laying and installation	–5°C to 50°C
Operation	–30°C to 70°C
Transport and storage	–40°C to 70°C

Color code for fibers/fiber units:Telcordia (Bellcore)

Standard attenuation values for standard single-mode fiber according to ITU-T G.652.D

- 1310 nm: 0,36 dB / km
- 1550 nm: 0,22 dB / km

Product data

Ordering number	Number of fibers	Fibers per bundle	Number of fibers per bundle	OuterØ (mm)	Net weight (kg/km)	Tensile rating (N))	Min. bending radius during installation (mm)
FWMC01-S0002-U001	2	2	1	3.5	10	75	60
FWMC01-S0004-U001	4	4	1	3.5	10	75	60
FWMC01-S0006-U001	6	6	1	3.5	10	75	60
FWMC01-S0008-U001	8	8	1	3.5	10	75	60
FWMC01-S0012-U001	12	12	1	3.5	10	100	60
FWMC01-S0024-U001	24	12	2	6.0	28	400	90
FWMC01-S0036-U001	36	12	3	6.0	29	400	90
FWMC01-S0048-U001	48	12	4	6.0	29	400	90
FWMC01-S0060-U001	60	12	5	6.0	29	400	90
FWMC01-S0072-U001	72	12	6	6.0	30	400	90

Other attenuation values, fiber counts, fiber types, cable designs and color codes on request.