CORNING

Data sheet
FWLT01-xxxxx-A003 / October 2006

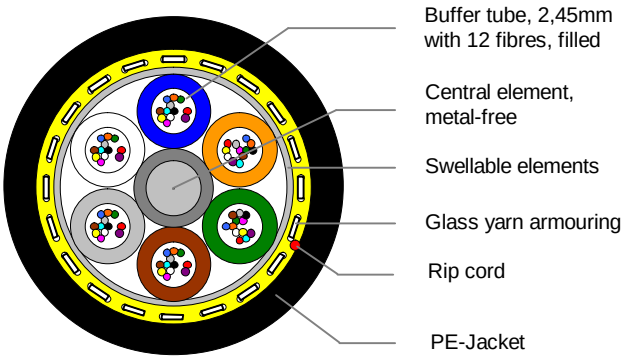
Product Family: **LANscape® Evolant® Outdoor Cable**

Product: **Loose tube cable with glass yarn armouring / A-DQ(BN)2Y 12-144 G62.5L/125 LG**

Fibre: **Laser-optimized multimode fibre, InfiniCor® 300, OM1**

Description and applications

Evolant® cables can be employed outdoors for campus backbone
The cables can be installed in conduits, ducts and be buried directly in the ground.



Example: A-DQ(BN)2Y 6x12G62.5L/125 LG

Cable

- Water blocking to IEC 60794-1-F5
- Metal-free cable, hence no ground loop problems.
- Enhanced rodent protection by laminated glass yarn.
- UV and microbe resistant.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- Telcordia (Bellcore) color standard for fibers and tubes

Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage			[°C]		-5 to +50 -30 to +70 -40 to +70	
Fibre count	Cable Ø [mm]	Cable weight [kg/km]	Min. bend radius during installation [mm	Min. bend radius in service [mm]	Max. tensile load during installation [N]	Max. crash resistance (short term, reversible) [N/10cm]	Water penetration (0.1bar/24 h) [N]
2x6	11,6	110	260	230	4000	2000	≤ 3
4x6	11,6	110	260	230	4000	2000	≤ 3
2x12	11,6	110	260	230	4000	2000	≤ 3
3x12	11,6	110	260	230	4000	2000	≤ 3
4x12	11,6	110	260	230	4000	2000	≤ 3
5x12	11,6	110	260	230	4000	2000	≤ 3
6x12	11,6	110	260	230	4000	2000	≤ 3
8x12	13,1	140	295	265	5000	2000	≤ 3
12x12	16,7	215	375	330	5000	2000	≤ 3

Corning Cable Systems GmbH & Co. KG · Rotherstrasse 21 · 10245 Berlin, Germany
TEL: 00800-2676-4641 (00800-CORNING1) · FAX: +49-30-5303-2335 · www.corningcablesystems.com

Design

Fibres and buffer tubes

- Fibres colour coding: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes colour: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise

Cable

- Dielectric central element
- Stranded buffer tubes, filled with thixotropic filling compound
- Swellable elements
- Glass yarn protection
- PE-Jacket
- Jacket colour: black

- Cable printing:

  meter marking handset double sinus Corning year

Fibre

- The fibre is fully compliant to the ITU-T G.651
- Optimized for VCSEL coupling conditions
- Warranted min. lengths for 1 and 10 Gigabit transmission according to IEEE 802.3z and IEEE 802.3ae

Optical Characteristics of Laser Optimized Fibres G62.5L/125 InfiniCor® 300 OM1:

Typical attenuation at 850 nm	[dB/km]	3.1
Typical attenuation at 1300 nm	[dB/km]	0.8
Bandwidth-length product (OFL=Overfilled Launch) for 1 km at 850 nm	[MHz x km]	≥ 200
Bandwidth-length product (OFL=Overfilled Launch) for 1 km at 1300 nm	[MHz x km]	≥ 600
Laser Bandwidth-length product (RML=Restricted mode launch) for 1 km at 850 nm	[MHz x km]	≥ 220
Guaranteed minimum distances for Gigabit Ethernet at 850 nm	m	300
Guaranteed minimum distances for Gigabit Ethernet at 1300 nm	m	550
Guaranteed minimum distances for 10 Gigabit Ethernet at 850 nm	m	33

The capability of the fibre is predicted by RML BW according to TIA/EIA 455-204 and IEC 60793-1-41 for laser BW < 850 MHz*km. This measurement method guarantees a future proof application at 1Gbit and 10Gbit. The fibre fulfills all requirements of TIA/EIA 492AAAA, OM1 classification according to standard ISO/IEC 11801 (2002) and EN 50173-1 (2003)

Order information:

Type description	A-DQ(BN)2Y 2x6G62.5L/125 LG	A-DQ(BN)2Y 4x6G62.5L/125 LG	A-DQ(BN)2Y 2x12G62.5L/125 LG
Delivery length	4000m	4000m	4000m
Ordering number	**FWLT01-N6012-A003**	**FWLT01-N6024-A003**	**FWLT01-S0024-A003**

Type description	A-DQ(BN)2Y 3x12G62.5L/125 LG	A-DQ(BN)2Y 4x12G62.5L/125 LG	A-DQ(BN)2Y 5x12G62.5L/125 LG
Delivery length	4000m	4000m	4000m
Ordering number	**FWLT01-S0036-A003**	**FWLT01-S0048-A003**	**FWLT01-S0060-A003**

Type description	A-DQ(BN)2Y 6x12G62.5L/125 LG	A-DQ(BN)2Y 8x12G62.5L/125 LG	A-DQ(BN)2Y 12x12G62.5L/125 LG
Delivery length	4000m	4000m	4000m
Ordering number	**FWLT01-S0072-A003**	**FWLT01-S0096-A003**	**FWLT01-S0144-A003**

Other cable and fibre types are possible upon request.

Corning Cable Systems GmbH & Co. KG · Rotherstrasse 21 · 10245 Berlin, Germany
TEL: 00800-2676-4641 (00800-CORNING1) · FAX: +49-30-5303-2335 · www.corningcablesystems.com