

# LANscape® Multi-purpose breakout cables (indoor/outdoor) with enhanced rodent and water blocking penetration AT-VQH(BN)H 2.8 mm 2 - 12; 2.0 mm 2 - 24 TB3



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## Features and Benefits

### All-dielectric cable construction

Requires no grounding or bonding

### Dry cable core by means of water swellable tape and elements

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

### Laminated glass yarns

For improved rodent resistance

### 900 µm-tight buffers

Allow easy and direct field connectorization

### UV and microbe resistant

Can be installed in ducts or conduits and direct buried

Corning Cable Systems MPC-Breakout (indoor/outdoor tight-buffered) cables can be deployed both indoors and outdoors for campus backbone and building backbone (riser) cabling. They can also be deployed for applications between floor distributors and terminal equipments/workstations (fibre-to-the-desk). The cables can be installed in conduits and ducts or can be buried directly in the ground. The tight-buffered construction allows fast and easy connectorization in the field.

**LANscape® Multi-purpose breakout cables  
(indoor/outdoor) with enhanced rodent and  
water blocking penetration  
AT-VQH(BN)H 2.8 mm 2 - 12; 2.0 mm 2 - 24  
TB3**

The logo consists of a solid blue square with the word "CORNING" written in white, uppercase, serif font centered within it.

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## Standards

<b>Waterblocking</b>	Waterblocking according to IEC 60794-1-2-F5
<b>Flame test method</b>	<p>Non corrosive to IEC 60754-2 and EN 50267</p> <p>Flame retardant according to IEC 60332-3-24 and EN 50266-2-4</p> <p>Low smoke to IEC 61034 and EN 50268</p> <p>Halogen-free</p>
<b>Approval and Listings</b>	Telcordia (Bellcore) colour standard for fibres and tubes

## Specifications

Cable Design	
Tight buffer colour	First fibre: aqua (OM4 and OM3); green (OM2); blue (OM1); yellow (OS2); All remaining fibres: white
Fibre colouring	Natural
Number of Tight Buffered Fibres Layer One	≤ 12 fibres
Number of Tight Buffered Fibres Layer Two	> 12 fibres
Outer jacket material	Flame-retardant (FR) and non-corrosive (NC)
Outer jacket colour	Black
Cable marking	Metre - Handset - Sine - CORNING - Year - Cable type + Fibre count + Fibre type

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-20 °C to 60 °C
Storage	-25 °C to 70 °C

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## Mechanical Characteristics Cable

Fibre Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Fire Load	Crush Resistance	Max. tensile strength for installation	Weight
Subunit Diameter 2.0 mm							
2	8.2 mm	160 mm	120 mm	1.18 MJ/m	2000 N/10cm	1500 N	67 kg/km
4	8.2 mm	160 mm	120 mm	1.18 MJ/m	2000 N/10cm	1500 N	66 kg/km
6	9.3 mm	185 mm	135 mm	1.5 MJ/m	2000 N/10cm	1500 N	88 kg/km
8	10.6 mm	210 mm	160 mm	1.97 MJ/m	2000 N/10cm	2000 N	113 kg/km
12	13.1 mm	260 mm	195 mm	3.11 MJ/m	2000 N/10cm	2500 N	175 kg/km
16	13.3 mm	265 mm	200 mm	4.23 MJ/m	2000 N/10cm	2500 N	165 kg/km
24	16.2 mm	325 mm	245 mm	5.7 MJ/m	2000 N/10cm	4000 N	247 kg/km
Subunit Diameter 2.8 mm							
2	10.4 mm	210 mm	160 mm	1.63 MJ/m	2000 N/10cm	1500 N	97 kg/km
4	10.4 mm	210 mm	160 mm	1.6 MJ/m	2000 N/10cm	1500 N	94 kg/km
6	12.7 mm	255 mm	195 mm	2.37 MJ/m	2000 N/10cm	1500 N	150 kg/km
8	14.3 mm	285 mm	215 mm	3.25 MJ/m	2000 N/10cm	2000 N	190 kg/km
12	17.6 mm	350 mm	265 mm	5.11 MJ/m	2000 N/10cm	4000 N	295 kg/km

\* Colour coding of tight-buffer coatings, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

## Chemical characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Transmission Performance

Fibre Name	G62.5L/125 InfiniCor® 300	G50/125 ULTRA-BEND 7.5	G50/125 ULTRA-BEND 7.5	G50/125 ULTRA-BEND 7.5	E9/125 SMF28e+
Fibre Type	Multimode	Multimode	Multimode	Multimode	Single-mode
Fibre Core Diameter (µm)	62.5	50	50	50	9
Fibre Category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310 / 1383 / 1550
Maximum Attenuation (dB/km)	3.1 / 0.8	2.8 / 1	2.8 / 1	2.8 / 1	0.38 / 0.38 / 0.25
Serial 1 Gigabit Ethernet (m)	300 / 550	750 / 600 / -	1000 / 600	1100 / 600	5000 / - / -
Serial 10 Gigabit Ethernet (m)	33 / -	150 / -	300 / 333	550 / -	10000 / - / 40000
Cable cutoff wavelength (nm)					1260
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA 455-204 and (OFL) IEC 60793-1-41, ITU G651, ISO/IEC 11801 Cat. OM1	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA 455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801 Cat. OM2	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3	TIA/EIA 492AAAD, Tested with min EMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 ED.2.0 ITU-T G651, ISO/IEC 11801 Cat. OM4	TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Cat. OS2
Fibre Code	A	G	H	K	U
Typical attenuation (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200 / 600	700 / 500	1500 / 500	3500 / 500	
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220 / -	950 / -	2000 / -	4700 / -	
Induced attenuation @ 7.5 mm radius (dB)		< 0.2 / -	< 0.2 / -	< 0.2 / -	

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Ordering Information | Contact Customer Service at 00800-2676-4641 (00800-CORNING1) for other options.

L C X L O 2 -      -  7  0

1
2
3
4
5

**1** Select fibre core.

M = 62.5 µm multimode, OM1  
L = 50 µm multimode,  
OM2, OM3, OM4  
D = 9 µm, Single-mode, OS2

**2** Defines cable type.

3 = MPC-indoor/outdoor  
breakout with subunits,  
rodent and waterblocking  
protection

**3** Select fibre count.

002 = 2 fibres  
004 = 4 fibres  
006 = 6 fibres  
008 = 8 fibres  
012 = 12 fibres  
016 = 12 fibres only with  
2.0 mm subunits  
024 = 24 fibres only with  
2.0 mm subunits

**4** Select fibre category.

A = 62.5 µm multimode,  
OM1  
G = 50 µm multimode,  
OM2  
H = 50 µm multimode,  
OM3  
K = 50 µm multimode,  
OM4  
U = Single-mode, OS2,  
SMF-28e®

**5** Select subunit diameter.

2 = 2.8 mm  
5 = 2.0 mm

\*Maximum delivery length per drum is 2000 metres -2/+3% for all fibre types.

\*For ordering information regarding non-standard design cables please contact our Customer Service Centre. (See bottom of page for contact information.)



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