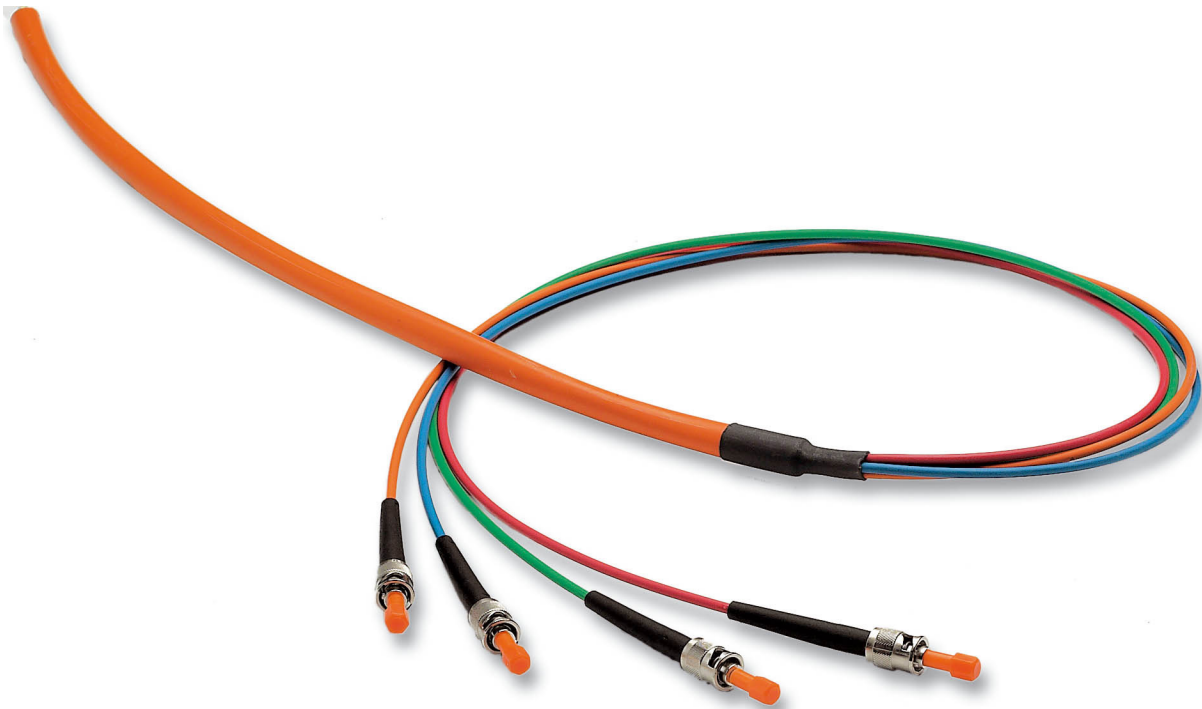


EFB Elektronik GmbH

**O6141.1 Breakoutcable ST/ST 2G 62,5/125 $\mu$ , 1 M**



Breakoutcable 2G 62,5/125 2x2 ST  
I-V(ZN)HH 2G 62,5/125  
2 x ST-connector each side

similar pic

## Technical data sheet

Connector Type: **EST**

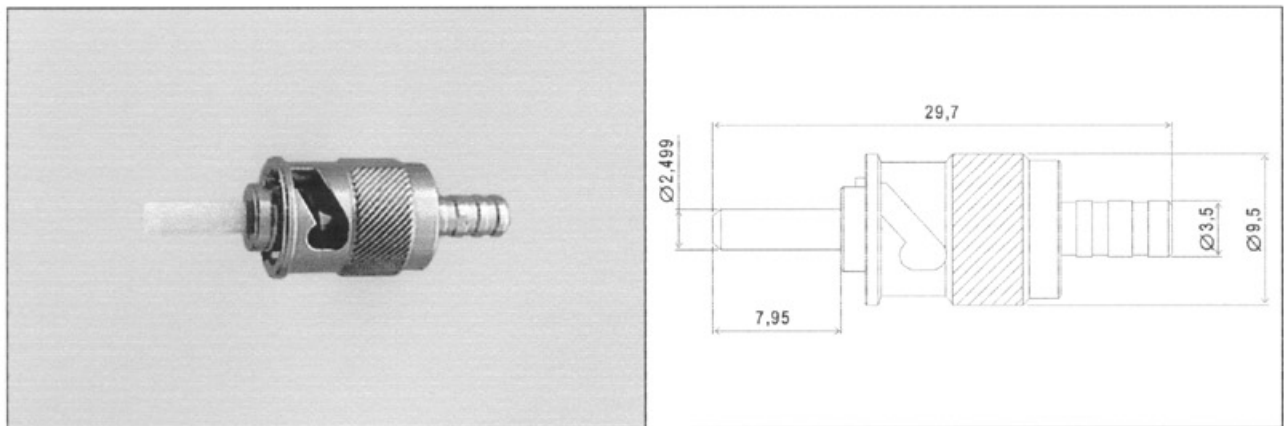
at IEC 60874-10 and CECC BFOC/2.5

**Multimode**

Connector with ceramic ferrule

Fiber 50/125 - 62.5/125

Part number: **EST5-C128-035M**



Technical Data	
Typical loss*	< 0.2 dB
Repeatability	± 0.15 dB
Mating cycles	2000
Deviation	≤ 0.2 dB
Operating temperature	-40°C/+85°C
Storage temperature	-40°C/+90°C
Cable retention (depends on cable)	≥ 150 N
Standard hole diameter	128 µm

Specifications	
Material ferrule	ZrO <sub>2</sub>
Surface	Convex, with polishing help
For cable diameter	2.5/2.8/3.0/3.5 mm
Cable mounting	Crimp
For fiber	0.9 mm
Fiber termination	Epoxy
Material housing	Metal
Connector system	Bayonet
Twist secured	Yes

\* Loss depends on termination and fiber.

# FutureLink Modular Indoor Cables

## Breakout Cables with InfiniCor® 300 Fiber

### T-VHH....G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR



Corning  
Cable Systems

## Application

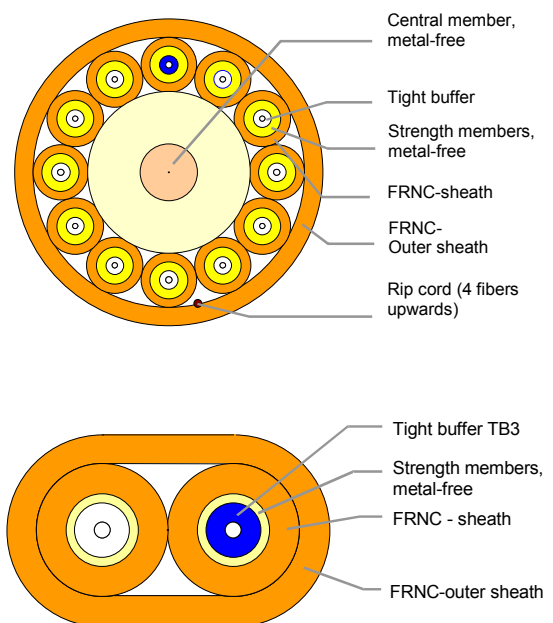
FutureLink breakout cables are particularly suitable for placing and pulling into cable conduits and shafts (building backbone and horizontal subsystems), also underfloor, for use as jumper and adapter cables and for connecting workstations inside buildings (FttD).

They can also be used as inter-building cables laid in dry conduits.

Easy and direct infield connectorization is possible with enhanced strain relief.



Example on T-VHH 12G62,5L/125 ...



# FutureLink Modular Indoor Cables

## Breakout Cables with InfiniCor® 300 Fiber

### T-VHH....G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR

#### **Characteristics**

Tested for their laser performance to FOTP 204  
Optimized for VCSEL launch conditions  
Guaranteed minimum distances for Gigabit Ethernet and 10 Gigabit Ethernet transmission  
Tight-buffered fiber of 900 µm diameter (TB3), easy to strip  
Low smoke according to IEC 61034 zero halogen (LS0H)  
Flame retardant according to IEC 60 332-3 and non corrosive according to IEC 60 754-2 (FRNC) and DIN VDE 0472 Teil 813  
No ground loop or potential equalization problems  
Dry design (no gel)  
Especially suitable for field installable UniCam connectors  
Pre-assembled cables are available upon request

#### **Design**

##### **Standard fiber**

Type: Multimode InfiniCor® 300 G62,5L/125 fiber  
Core diameter:  $62,5 \pm 3,0$  µm  
Cladding diameter:  $125,0 \pm 1,0$  µm  
Coating diameter:  $245 \pm 5$  µm  
Numerical aperture:  $0,275 \pm 0,015$   
Effective group index of refraction at 850 nm: 1.496  
Effective group index of refraction at 1300 nm: 1.491  
Colour code of fibers according to Telcordia (Bellcore)  
Further fiber data are available upon request (fiber datasheet)

##### **Tight buffer**

Tight buffer, flame retardant and zero halogen  
Colour code of tight buffers: the marked wire blue and the following white  
Diameter: 0,9 mm

##### **Basic element**

1 central tight buffer, strength members as additional strain relief  
Outer sheath flame retardant and zero halogen  
Colour of jacket: orange  
Wall thickness: 0,7 mm  
Diameter: 2,9 mm

##### **Cable**

2 buffers without central member, parallel in common outer sheath flame retardant and zero halogen, orange, wall thickness: 0,5 mm

4 up to 12 buffers in one layer around central member, common outer sheath flame retardant and zero halogen, orange, wall thickness: 0,9 mm

# FutureLink Modular Indoor Cables

## Breakout Cables with InfiniCor® 300 Fiber

### T-VHH....G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR

## Characteristics

### Optical characteristics

Typical attenuation at 850 nm: 3,1 dB/km

Typical attenuation at 1300 nm: 0,8 dB/km

Bandwidth-length product (OFL=Over Filled Launch) for 1 km at 850 nm:  $\geq 200$  MHz x km

Bandwidth-length product (OFL=Over Filled Launch) for 1 km at 1300 nm:  $\geq 500$  MHz x km

Guaranteed minimum distances for Gigabit Ethernet at 850 nm: 300m

Guaranteed minimum distances for Gigabit Ethernet at 1300 nm: 550m

Guaranteed minimum distances for 10 Gigabit Ethernet at 850 nm: 33m

### Mechanical characteristics

Number of Fibers	Outside- ø [mm]	Weight [kg/km]	Tensile strength for installation [N]	Bend radius for installation [mm]	Bend radius in operation [mm]	Fire rating [MJ/m]
2	3,9x6,8	30	$\leq 400$	$\geq 70$	$\geq 60$	0,52
4	8,9	75	$\leq 800$	$\geq 160$	$\geq 135$	1,27
6	10,7	108	$\leq 1200$	$\geq 190$	$\geq 165$	1,88
8	12,5	150	$\leq 1600$	$\geq 220$	$\geq 190$	2,64
12	16,4	260	$\leq 2400$	$\geq 285$	$\geq 245$	4,61

### Temperature range

During installation: -5°C up to +50°C

During operation: -20°C up to +60°C

During transport and storage: -25°C up to +70°C

## Order Information

Type designation: T-VHH 2G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR  
Order number 2 fibers: LCXLI2-M3002-A720

Type designation: T-VHH 4G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR  
Order number 4 fibers: LCXLI2-M3004-A720

Type designation: T-VHH 6G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR  
Order number 6 fibers: LCXLI2-M3006-A720

Type designation: T-VHH 8G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR  
Order number 8 fibers: LCXLI2-M3008-A720

Type designation: T-VHH 12G62,5L/125 3,1B200 + 0,8F500 TB3 FRNC OR  
Order number 12 fibers: LCXLI2-M3012-A720