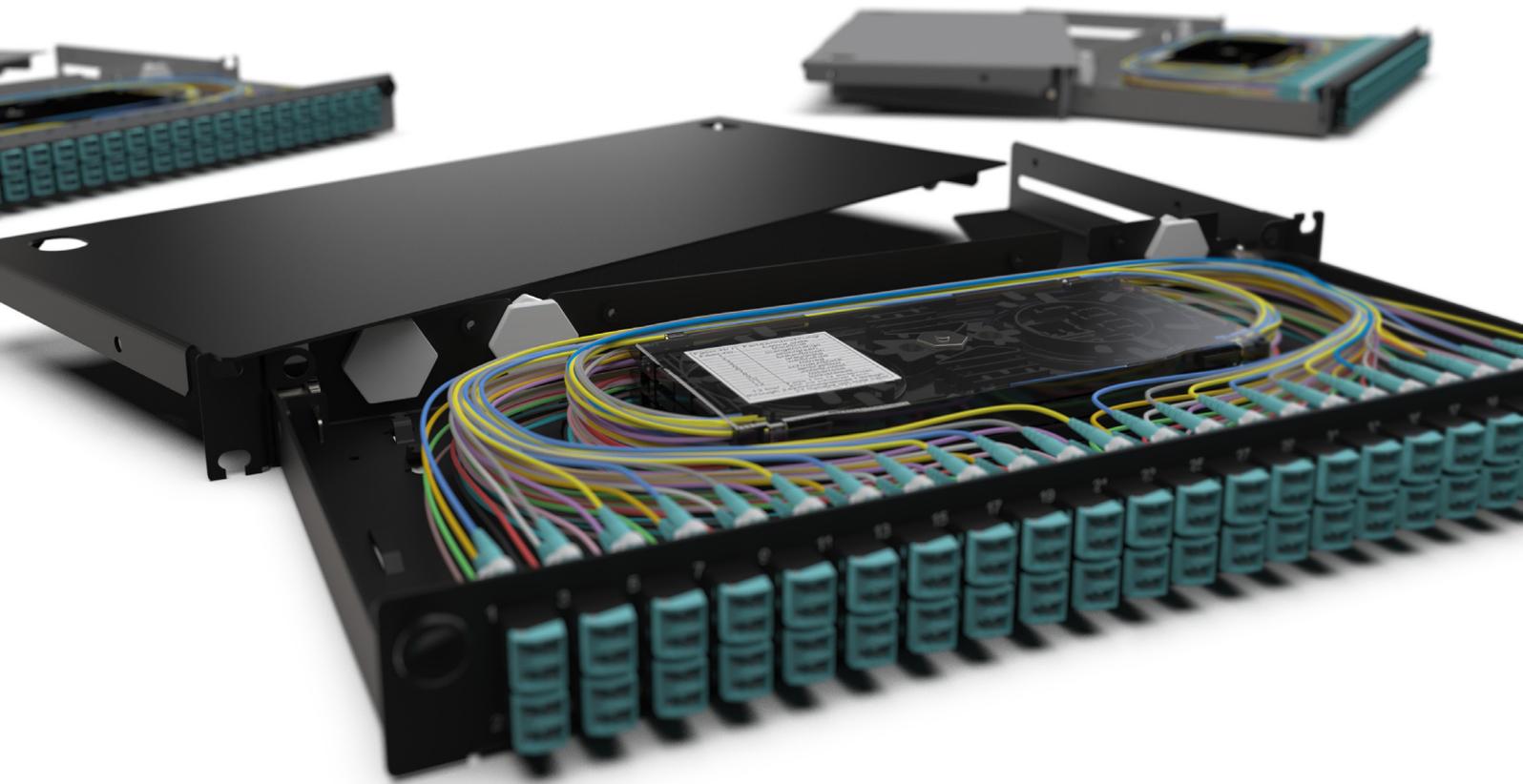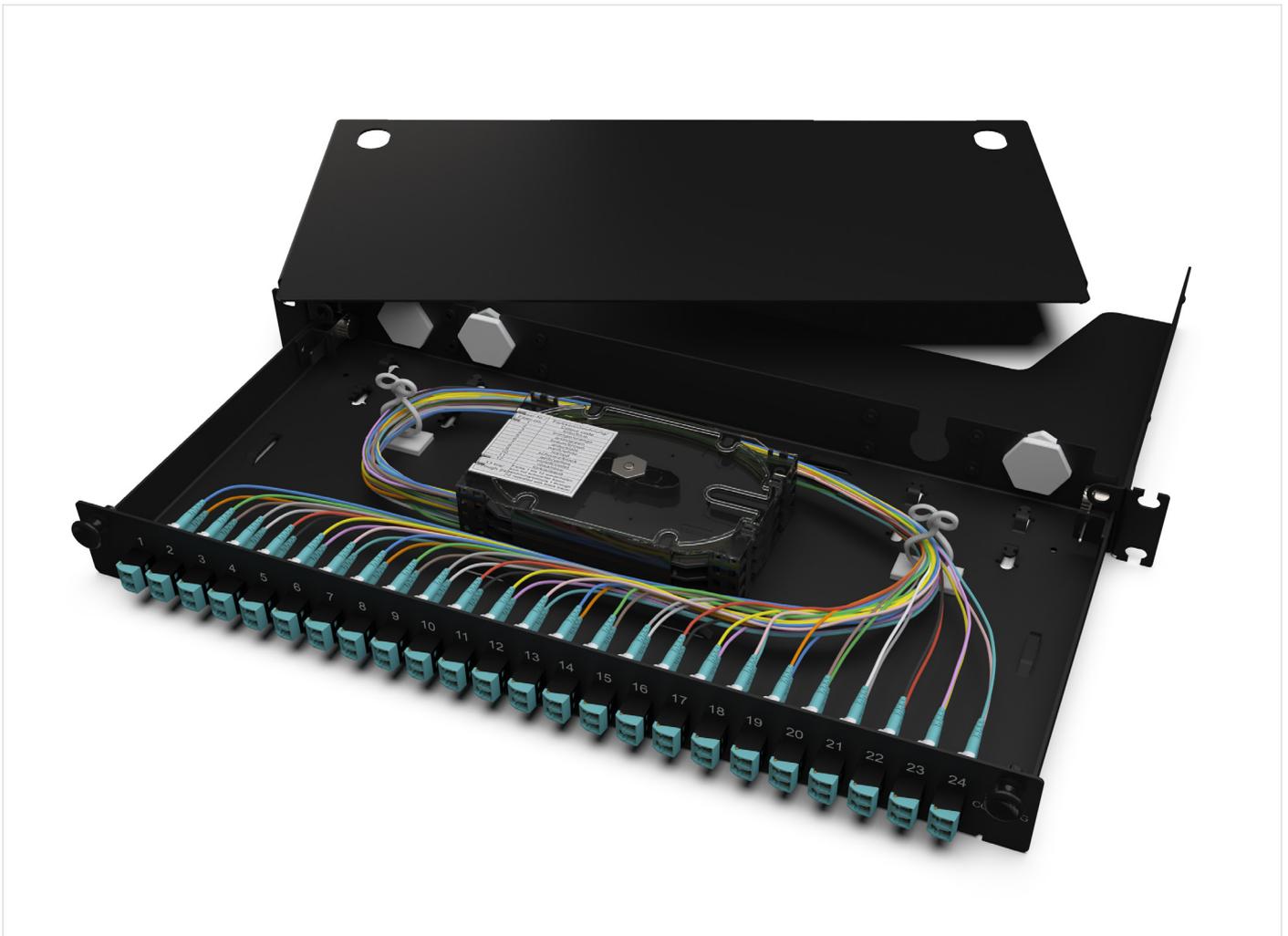# Everon® LAN1 Fibre Housing

Introduction

Our Everon® LAN1 Fibre Housings are designed to fulfill all your connectivity needs in any enterprise cabling installation that is based in a 19-inch rack. Whether you have to cable a building backbone, a small to medium-sized campus network or even a low density distribution frame, the LAN1 Fibre Housings always offer the right answer. The three basic options of the product family give you flexibility and offer a panel for every installation:

- Equipped with adapters and splice packs for maximum protection and easy segregation of fibres the fully loaded housing option is ready for fusion splicing.

- The housing variation with adapters and splice bridge offers an economic alternative for fusion splicing applications, saving time while routing and splicing the fibres inside the housing.

- For a low fibre count installation with either pre-terminated assemblies or using UniCam® NPC+ or FuseLite® 2 connectors for field termination. The housing comes with a front panel including adapters that match your choice of connectivity. Accessories for pre-terminated assemblies or Plug & Play™ or EDGE™ solutions trunks and FTTD/FTTO applications have to be ordered separately.

Everon LAN1 Fibre Housing, 48 Fibres with Splice Pack
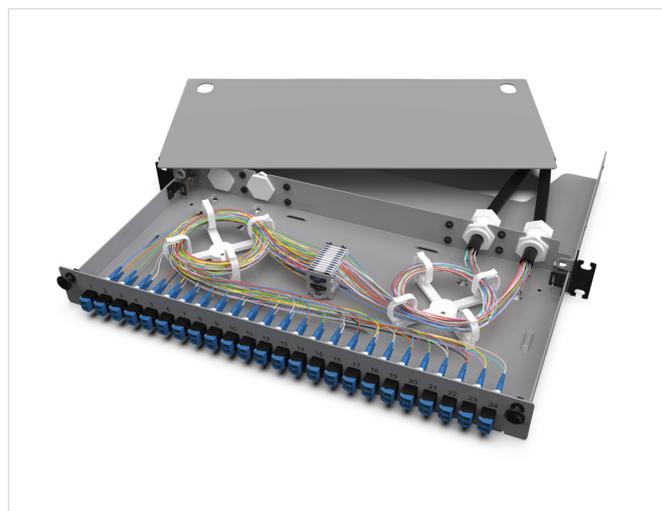
Contents

Everon LAN1 Fibre Housing, 36 Fibres with Adapters

Everon LAN1 Fibre Housing, 48 Fibres with Splice Pack
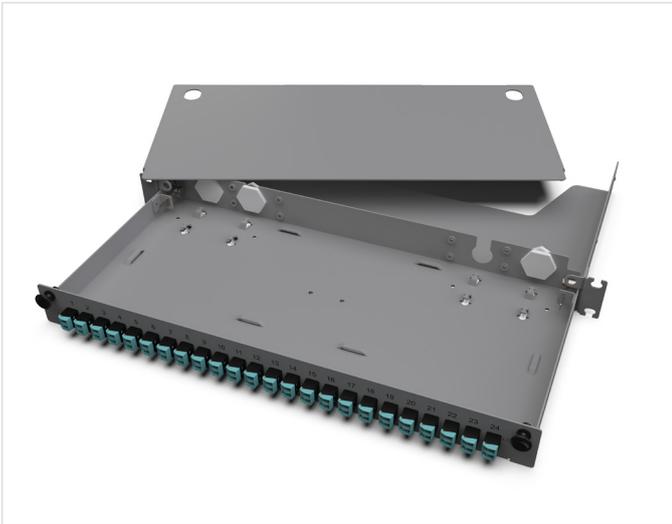

Everon LAN1 Fibre Housing, 96 Fibres with MFT Splice Cassette

Everon LAN1 Fibre Housing, 48 Fibres Stackable Splicing Bridge

Everon® LAN1 Fibre Housing

Everon LAN1 Fibre Housing, 48 Fibres with Adapters

Everon LAN1 Fibre Housing, 24 Fibres with Splice Pack

Features and Benefits

Easy to remove top cover
No tools needed

Housing made of aluminium
Lightweight, but robust

Quick-mount feature
Allows single-person mounting of housing

Splice capacity of up to 96 fibres in 1U
Segmentation of fusion splices with splice packs of 12 fibres each
or cassettes with 24 fibres each

Accommodate different termination methods
Pigtail splicing, field connectorisation, pre-terminated cables, Plug & Play™
or EDGE™ trunks can be installed in the same housing

Adapters with ceramic inserts and LC duplex with shutters
Minimal insertion loss and clean connectors

Low installation depth
Mountable in shallow cabinets or racks

Available in black or grey
Colour can be chosen to best suit the application

Multiple labelling options
Port numbering above adapter or customised labels

Grounding Prepared
Grounding preparation for entire housing, including front panel

900 μm pigtails and 250 μm fibre are Telcordia colour-coded
that reduce installation time during fibre identification

Pigtails are pre-stripped to 250 μm and pre-routed
for configurations with splice trays

900 μm TB (Easy Strip) – reduces stripping time

Ordering Information

Part Number	Height (unit)	Housing Colour	Dimensions (W x D x H)
Everon LAN1 Fibre Housing	1U	Black	483 x 233 x 44 mm
Everon LAN1 Fibre Housing	1U	Grey	483 x 233 x 44 mm

**Scan or click the QR code to watch our
LAN 1 installation video.**

Everon® LAN1 Fibre Housing – Ordering Information

LAN1 - ▢▢▢▢ - ▢▢▢▢ - ▢

1   **2**   **3**   **4**

1 **Select fibre count.**

04 = 4 fibres*
06 = 6 fibres*
08 = 8 fibres*
12 = 12 fibres*
24 = 24 fibres*
36 = 36 fibres*
48 = 48 fibres* (up to 48 use ADPT
    or PGTL configuration)
72 = 72 fibres (LC only with HDHS,
    HDCR, ADPT or BRDG configuration)
96 = 96 fibres (LC only with HDHS,
    HDCR, ADPT or BRDG configuration)
E4 = 144 fibres (MTP® only for ADPT)†
U8 = 288 fibres (MTP only for ADPT)†

*Suitable for all adapter types with universal splice cassette kit
(heat-shrink/crimp) including 12 pigtails and cover

†Not a standard product, please contact your
local sales representative

2 **Select connectivity.**

AY = Shuttered LC Duplex MM/OM5, lime green
AD = Shuttered LC Duplex MM/OM3+OM4, aqua
AV = Shuttered LC Duplex MM/OM4, violet
AE = Shuttered LC Duplex UPC SM/OS2, blue
AF = Shuttered LC Duplex APC SM/OS2, green
BQ = SC Duplex MM/OM5, lime green
E7 = SC Duplex MM/OM3+OM4, aqua
72 = SC Duplex UPC SM/OS2, blue
D9 = SC Duplex APC SM/OS2, green
5C = SC Simplex UPC SM/OS2, blue
6C = SC Simplex APC SM/OS2, green
E5 = ST® compatible MM/OM3+OM4, aqua ring
19 = ST compatible UPC SM/OS2, blue ring
11 = FC SM/OS2, metal
L1 = LSH APC/OS2, green
L2 = LSH UPC/OS2, blue,
L4 = LSH UPC/MM/OM4/OM3, aqua
L5 = LSH UPC/OM5, lime green
E3 = MTP, MM/OM3,OM4, aqua†
90 = MTP APC, SM/OS2, black†

†Not a standard product , please contact your
local sales representative

3 **Select configuration option.**

ADPT = Front panel loaded with adapters only
    (Breakout version)
PGTL = Universal splice pack with 12 pre-installed
    coloured pigtails (up to 48 fibres),
    (protectors not included)
HDHS = MFT splice tray for up to 24 heat-shrink splice
    protectors with 24 pre-installed coloured pigtails
    (protectors not included)
HDCR = MFT splice cassette for up to 24 crimp splice
    protectors with 24 pre-installed coloured pigtails
    (protectors not included)
BRDG = Stackable splice bridge for up to 96 splices
    and easy loose tube or pigtail management
    with pre-installed coloured pigtails
    (protectors not included)

4 **Select housing colour.**

B = Black
G = Grey

Field Termination with Corning Field-Installable Connectors or Pre-terminated Assemblies

Everon LAN1 Fibre Housing, 48 fibres with adapters

Partially loaded panels (or Breakout versions) are available with LC, SC, ST® compatible or LSH connector interface and come equipped with fibre adapters. They are ideal for direct termination with UniCam® NPC+ or FuseLite® 2 connectors or fusion splicing with the help of the Corning splice packs.

For details on the field-installable connectors, we have an extensive resource centre online, that provides helpful information on installation methods, technical resources, videos and links to the products in the online catalogue, accessible here.

Everon® LAN1 Fibre Housings offer the possibility to use different additional accessories for cable strain-relief to be placed at the back of the housing to enable the use of:

· Pre-terminated cable assemblies, such as connectorised MIC™ or Breakout Tight Buffer cables
· Plug & Play™ or EDGE™ Solutions trunks
· Direct termination on low-fibre-count tight-buffered cables

Sample Bill of Materials

Part Number	Product Description	Amount	Unit
LAN1-12E7-ADPT-B	1U Everon LAN1 Fibre Housing, 12 Fibres, SC Duplex MM/OM3/4	1	pcs
012T8X-32188E2G	12x MM/OM3 FREEDM™ Tight Buffer Indoor/Outdoor Cable Dca-s1a, d1, a1	250	m
95-050-41-X	SC MM/OM3 UniCam® High-Performance Connector	12	pcs
Toolkit Recommended			
TKT-UNICAM-PFC	UniCam™ High-Performance Toolkit	1	pcs

UniCam Connectors and High-Performance UniCam Toolkit

Splice Packs
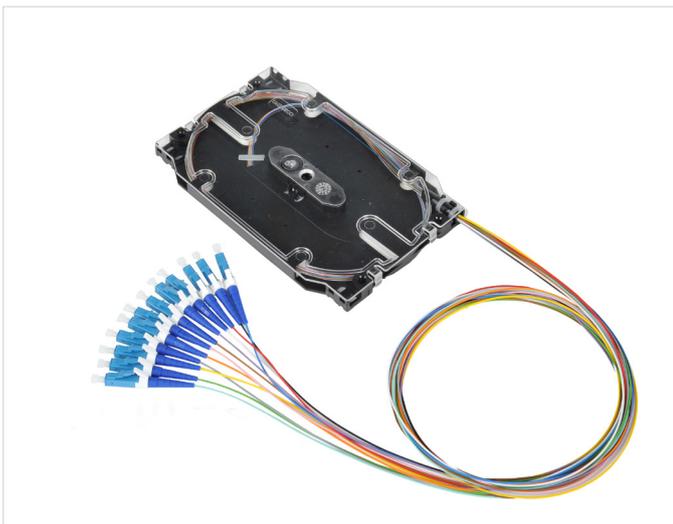
LC SM/OS2 Universal Splice Pack

Universal Everon® LAN1 Splice Packs are suitable for Everon LAN1 Fibre Housings which provide up to 96-fibre (48-port) capacity for LC duplex and 48-fibre (24-port) capacity for SC duplex or ST® compatible connectivity.
The easiest combination when fusion splicing is using a gel-free 250 μm cable, such as the FREEDM™ gel-free Indoor/Outdoor cable.

Everon LAN1 Fibre Housings offer the possibility to use different additional accessories for cable strain-relief to be placed at the back of the housing to enable the use of:

· Splice packs include 12 pigtails of 900 μm TB (Easy Strip 150 cm) fibres pre-stripped to 250 μm
· Fibres are Telcordia colour-coded on both 900 μm and 250 μm layers
· Pigtails are 2-metres in length
· Splice packs are delivered with transparent cover and both heat-shrink and crimp splice organiser

Ordering Information

Part Number	Product Description
SP12-03Q-S8	LC MM/OM4 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-03Q-S8-V	LC MM/OM4 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover, violet boots
SP12-03T-S8	LC MM/OM3 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-02R-S8	LC SM/OS2 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-39Q-S8	SC MM/OM4 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-39T-S8	SC MM/OM3 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-58R-S8	SC SM/OS2 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-50T-S8	ST MM/OM3 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover
SP12-61R-S8	ST SM/OS2 Universal Splice Pack (heat-shrink/crimp) including 12 pigtails and cover

LAN1 Housing and Multifibre Cable Assemblies

Corning's pre-terminated multifibre assemblies use high-quality Corning® ClearCurve® multimode fibres to withstand tight bends and challenging cabling routes with substantially less signal loss than conventional multimode fibre. Corning® SMF-28® Ultra single-mode fibres combine industry-leading attenuation and improved macrobend performance.

As the industry's leading supplier of fibre, our state-of-the-art manufacturing process for cable assemblies ensures unsurpassed fibre and connector performance that meets and exceeds industry standards for connector reflectance and insertion loss. Low-loss connectivity enables system design flexibility for your application.

Reverse polarity LC Uniboot connectors allow for a quick-and-easy conversion of polarity in the field without exposing the fibres or needing any tools. The slim, round, 2-fibre cable allows it to carry fibres of the Uniboot-style duplex connectors, reducing the cable bulk when routing and providing improved handling in high-density applications.

Cable Assemblies shown on the next page need to be ordered with an Everon® LAN1 Housing, ADPT style (refer to housing ordering grid on page 5).

Everon LAN1 Multifibre Housing, 72 Fibres

Multifibre Cable Assemblies – Ordering Information

Corning multifibre cable assemblies can be ordered in a few easy steps. The steps involve the selection of pulling grip, connector(s), fibre count, fibre type, leg diameter, leg length, polarity, and total length of product. The steps are listed below.

☐ ☐☐ ☐☐ ☐☐ ☐ L Z B ☐☐ ☐☐ ☐ ☐☐☐ M

1 2 3 4 5 6 7 8 9 10 11 12 13

1 Select grip.
C = No pulling grip
A = Pulling grip on one end
    (packaged outside reel)
B = Pulling grips on both ends
    (first packaged outside reel,
    second packaged inside reel)

**2 Select connector on first end.
(packaged outside reel)**
Single-mode:
00 = Pigtail*
02 = LC Simplex UPC
04 = LC Duplex UPC
18 = LC Duplex APC
22 = LC Simplex APC
44 = SC Simplex APC
58 = SC Simplex UPC
66 = SC Duplex APC
72 = SC Duplex UPC
78 = LC Duplex Uniboot UPC
80 = LC Duplex Uniboot APC
MU = MDC UPC Senior
MA = MDC APC Senior
NU = SN UPC
NA = SN APC

Multimode:
00 = Pigtail*
03 = LC Simplex
05 = LC Duplex
39 = SC Simplex
57 = SC Duplex
79 = LC Duplex Uniboot
MM = MDC UPC Senior
NM = SN UPC

**3 Select connector on second end.
(packaged inside reel)**
See selection under 2.

4 Select fibre count.
08 = 8 fibres
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres
K2 = 192 fibres
U8 = 288 fibres
AE = 384 fibres (900 µm legs only)
AK = 432 fibres (900 µm legs only)

5 Select fibre type.
T = 50 µm Multimode (OM3)
Q = 50 µm Multimode (OM4)
V = 50 µm Wideband
    Multimode (OM5)
G = Single-mode Ultra (OS2)

6 Defines cable type.
LZ = LSZH™

7 Defines cable flame rating.
B = EU CPR class B2ca

8 Select leg length on first end.
0 = Pigtail*
J = 300 mm
C = 400 mm
U = 500 mm
K = 600 mm
W = 700 mm
D = 800 mm
I = 900 mm
L = 1,000 mm
M = 1,200 mm
B = 1,500 mm
P = 1,800 mm
Q = 2,000 mm

9 Select leg OD on first end.
0 = Pigtail*
A = 2.0 mm
B = 900 µm
D = 1.6 mm†

10 Select leg length on second end.
See selection under 8.

11 Select leg OD on second end.
See selection under 9.

12 Select polarity.
C = Classic (Type-B)
P = Straight-through (Type-A)

13 Select cable length in meters.
003-200 M
*Assembly length is measured
from furcation point to furcation
point. (+1/-0 m)*

* Pigtail available on straight polarity only.
† Only available for MDC, SN or LC Uniboot connector types.

Additional leg lengths and customised staggering for EDGE™ and Centrix™ hardware available upon request.
For OM4 heather violet, please add -VI at the end of the part number or contact Corning Customer Care at 00800 2676 4641 or cc.emea@corning.com.
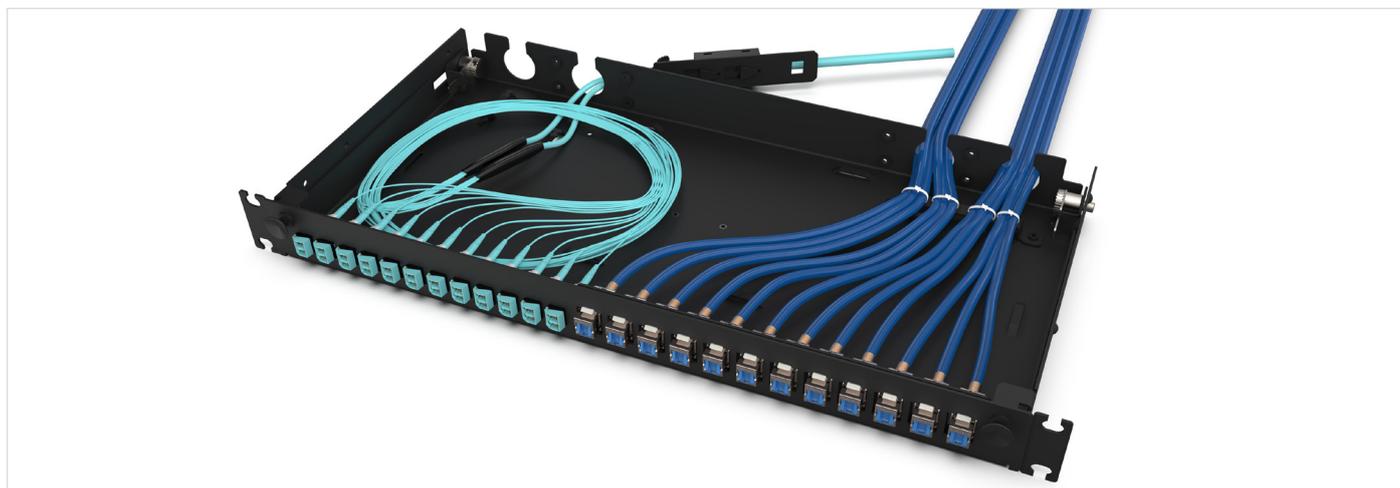
Everon® LAN1 Fibre Housing – Hybrid Overview

The Everon® Fibre Housing (LAN1) offers termination solutions for various applications in the LAN environment. Developed for 19-inch racks, the housings allow configurations for different connectivity needs as pre-terminated assemblies, field termination, or pigtail splicing. Everon Fibre Housing hybrid version (LAN1) can mix fibre and copper connectivity within the same housing to support special installations, for instance in colocation racks or multimedia applications.

Necessary accessories for field termination within the housing are included in the shipment. Accessories for pre-terminated assemblies or Plug & Play™ or EDGE™ solutions trunks and FTTD/FTTO applications have to be ordered separately.

Keystone copper module to be ordered separately.

Keystone Jack Part Number	Product Description	Category	Jack Colour	Quantity in Pack	AWG Solid	AWG Flex	Channel Performance	PoE/PoE +	Transmission Speed
CAXXSM-00104-C001 *	xs500 1 Way STP Jack	6$_A$	Silver	1	22-24	N/A**	Class EA Channel (4 connectors)	PoE / PoE+/4PPoE	10GbE
CAXXSM-00104-C011-BP *	xs500 1 Way STP Jack	6$_A$	Silver	24	22-24	N/A**	Class EA Channel (4 connectors)	PoE / PoE+/4PPoE	10GbE
KAXESM-00101-C001-B6	KS250S 3 Way STP Jack	6	Silver	6	22-24	24-27	Class E Channel	PoE / PoE+/4PPoE	1GbE
KAXESM-00101-C001-BP	KS250S 3 Way STP Jack	6	Silver	24	22-24	24-27	Class E Channel	PoE / PoE+/4PPoE	1GbE
KAXVSM-00101-C001-B6	KS250U 3 Way UTP Jack	6	White	6	22-24	24-27	Class E Channel (4 connectors)	PoE / PoE+/4PPoE	1GbE
KAXVSM-00101-C001-BP	KS250U 3 Way UTP Jack	6	White	24	22-24	24-27	Class E Channel (4 connectors)	PoE / PoE+/4PPoE	1GbE
KAXBSM-00104-C001-B6	KS500S 3 Way STP Jack	6$_A$	Silver	6	22-26	24-27	Class EA Channel (6 connectors)	PoE / PoE+/4PPoE	10GbE
KAXBSM-00104-C001-BP	KS500S 3 Way STP Jack	6$_A$	Silver	24	22-26	24-27	Class EA Channel (6 connectors)	PoE / PoE+/4PPoE	10GbE
KAXKSM-00104-C001-B6	KS500U 3 Way UTP Jack	6$_A$	White	6	22-26	24-27	Class EA Channel (4 connectors)	PoE / PoE+/4PPoE	10GbE
KAXKSM-00104-C001-BP	KS500U 3 Way STP Jack	6$_A$	White	24	22-26	24-27	Class EA Channel (4 connectors)	PoE / PoE+/4PPoE	10GbE

* Copper conducting tape is not included with xs500 jacks and needs to be ordered separately: CAXCSN-00000-C011

Everon LAN1 Fibre Housing-Hybrid, 24 Fibres, 12 Copper Jacks

Everon® LAN1 Fibre Housing – Hybrid Ordering Information
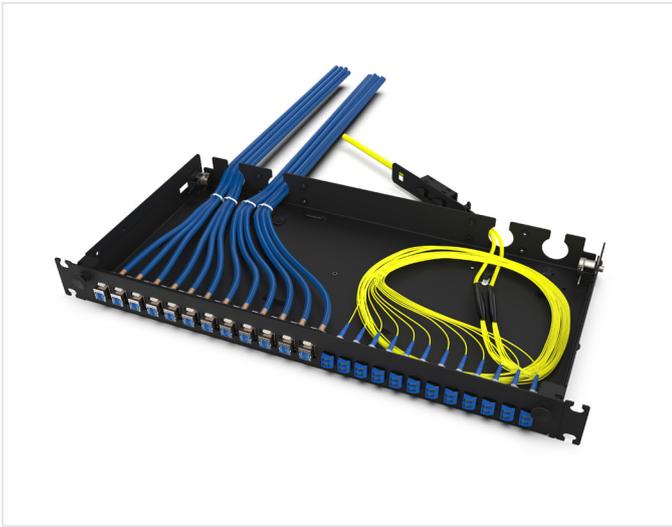
Everon LAN1 Fibre Housing-Hybrid, 24 Fibres, 12 Copper Jacks

Features and Benefits

Easy to remove top cover
No tools needed

Housing made of aluminium
Lightweight, but robust

Quick-mount feature
Allows single-person mounting of housing

Adapters with ceramic inserts and LC duplex with shutters
Minimal insertion loss and clean connectors

Low installation depth
Mountable in shallow cabinets or racks

12 fibre ports and 12 copper ports
Accepts up to 12x Everon copper Keystone modules while LC adapters are provided

Multiple labelling options
Port numbering above adapter or customised labels

Strain-relief brackets included
No need to order separately

Ordering Information

LAN1 - ☐☐ ☐☐ - HYBRID - ☐ - ☐
         1   **2**   **3**   **4**

1 Select fibre count.
06 = 6 fibres
12 = 12 fibres
24 = 24 fibres

2 Select fibre adapter type.
AE = Shuttered LC Duplex UPC SM, blue
AF = Shuttered LC Duplex APC SM, green
AD = Shuttered LC MM, aqua
AV = Shuttered LC Duplex PC MM, violet
AY = Shuttered LC Duplex MM/OM5, lime green

3 Select fibre position on the front panel.
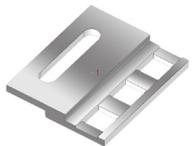L = Fibre on the left
R = Fibre on the right
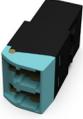
4 Select housing colour.
B = Black
G = Grey

LAN1 Accessories

Part Number	Product Description	Units per Delivery	
LAN1-STRN-C-B	Everon® LAN1 U-clip EDGE™ cradle bracket, black	1/1	
LAN1-STRN-C-G	Everon LAN1 U-clip EDGE cradle bracket, grey	1/1	
HDWR-GRND-KIT	Hardware Ground Kit	1/1	
LAN1-TRAY-HOLDER	Everon LAN1 metal holder for trays	1/1	
LAN1-ANGL-BKT-20-B	Everon LAN1 angled bracket for M20 PG glands, black	1/1	
LAN1-ANGL-BKT-20-G	Everon LAN1 angled bracket for M20 PG glands, grey	1/1	
LAN1-ANGL-BKT-25-B	Everon LAN1 angled bracket for M25 PG glands, black	1/1	
LAN1-ANGL-BKT-25-G	Everon LAN1 angled bracket for M25 PG glands, grey	1/1	

LAN1 Accessories (continued)

Part Number	Product Description	Units per Delivery	
LAN1-STRN-T-B	Everon® LAN1 strain-relief bracket, T-shaped, black	1/1	
LAN1-STRN-T-G	Everon LAN1 strain-relief bracket, T-shaped, grey	1/1	
LAN1-UNI-M25-7-10	Everon LAN1 Universal split gland M25 for cable diameters 7-10 mm	N/A	
LAN1-UNI-M25-11-15	Everon LAN1 Universal split gland M25 for cable diameters 11-15 mm	N/A	
LANS-M20	Everon LAN1 Cable glands M20 for cable diameters 6-12 mm, pack of 10	10/1	
LANS-M25	Everon LAN1 Cable glands M25 for cable diameters 9-16 mm, pack of 10	10/1	
LAN1-21-BRKT-2	LAN1 bracket 21 in	2 /1	
WAXWSW-00008-C009	Patch Cable Guides, 1U, black	2/1	
WAXWSW-00000-C009	Patch Cable Guides, 1U, silver	2/1	
WAXWSW-00008-C007	1U Patch Cable Management Panel, 5 rings, black	1/1	
WAXWSW-00000-C007	1U Patch Cable Management Panel, 5 rings, silver	1/1	

LAN1 Accessories (continued)

Part Number	Product Description	Units per Delivery	
ADPT-KIT-12-AD	Pack of 12 LC PC Dup Adapters for LAN1	1/1	
ADPT-KIT-12-AV	Pack of 12 LC PC Dup OM3/4 Violet Adapters for LAN1	1/1	
ADPT-KIT-12-AE	Pack of 12 LC UPC Dup Adapters for LAN1	1/1	
ADPT-KIT-12-E7	Pack of 12 SC PC Dup Adapters for LAN1	1/1	
ADPT-KIT-12-72	Pack of 12 SC UPC Dup Adapters for LAN1	1/1	

LAN1 Cleaning Accessories

Part Number	Product Description	Units per Delivery	
CLEANER-PORT-LC	Single-fibre Port Cleaner for LC, keyed LC, and MU connector end faces for both UPC and APC polishes	1/1	
CLEANER-PORT-2.5	Single-fibre Port Cleaner for all 2.5 mm ferruled connectors such as FC, SC and ST® compatible; effective for PC, UPC and APC polishes	1/1	

CORNING