HUBER+SUHNER

OPTIPACK TRUNK CABLES MTP®-MTP®

HIGH-DENSITY MULTI-STRANDED BACKBONE CABLES

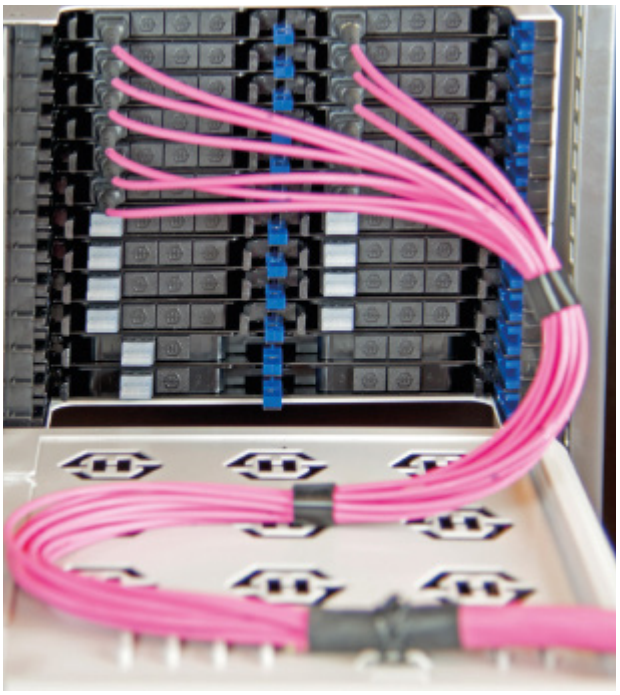
edp Distribution

PRODUCT OVERVIEW

Optipack trunk cables are high-density multi-stranded cables which form the backbone of the Data Centre.

Available in different fibre-counts up to 144 fibres, the Optipack trunks reduce the installation time by consolidating multiple sub-units into a single cable. This approach significantly reduces the overall diameter of the cable and provides much better space utilisation of cable routing channels.

Optipack trunk cables are available with 8, 12 and 24 fibre sub-units so that users can deploy Base-8, Base-12 or Base-24 infrastructures to suit their MTP connectivity requirements.



Base-8 Optipack Trunk Cables

Base-8 Optipack trunks allow users to build 10G links today which can easily be upgraded to 40G links tomorrow using 8 fibre MTP® connectivity.

Base-12 Optipack Trunk Cables

Base-12 Optipack trunks allow users to build 10G links today which can easily be upgraded to 40G or 100G links tomorrow using conversion modules, harnesses or jumpers. This approach will result in a 33% fibre wastage for 40G links because the transceiver requires only 8 of the 12 fibres in the cable.

Base-24 Optipack Trunk Cables

Base-24 Optipack trunks allow users to build 10G links today which can easily be upgraded to 40G or 100G links tomorrow by using conversion modules, conversion harnesses or jumpers.

Characteristics

- Available with 8, 12 and 24 fibre strand sub-units.
- Small outer-diameter for space saving / handling.
- Terminated with MTP® connectors for 40G/100G applications.
- Customer specific cable and fan-out lengths available, along with connector type and fibre polarity.
- Bend-optimised fibre as standard.
- Braided sock as connector protection /pulling aid.
- Supplied as an air ring or coiled on particle-free plastic cable spool.
- 75 % faster than splicing cables.
- Colour-coded MTP boots for easy and fast identification (MTP-8, -12, 24).
- Metal-free indoor cable with LSFH™.
- CPR compliant, grade B2ca.

General Specification

Application		Data centre – Backbone trunk connections
Fibre Type	OS2	E9/125 low bend (G.657 A2)
	OM4	G50/125 – OM4 low bend (IEC 60793-2-10 A1a.3)
Cable Type		Metal free indoor cable – Strain relieved aramid yarn
Cable Jacket Colour	OS2	Yellow
	OM4	Heather Violet

Construction

Connectors	Side A	MTP® 8/12/24 fibres (male / female)
	Side B	MTP® 8/12/24 fibres (male / female)

Optical Performance

	Tested acc. to	Condition	Values
Connector Insertion Loss	IEC 61300-3-4*		<0.35 dB
Return Loss	IEC 61300-3-6 OM4	SM	>60 dB
		OM4	>30 dB

Environmental Data

	Tested acc. to	Condition	Values
Temperature Range	IEC 61300-2-22	During installation	–10 to +50°C
		In service	–10 to +70°C
		Storage conditions	–20 to +70°C
Fire Performance			CPR rating B2ca-s1a,d0,a1 or Dca-s1,d0,a1

Dimension

	Condition	8 Fibre	12 Fibre	24 Fibre	48 Fibre	72 Fibre	96 Fibre	144 Fibre
Cable Diameter (mm)	Base 8	3.0	n/a	6.6	7.6	n/a	10.3	n/a
	Base 12	n/a	3.0	6.6	6.6	7.6	n/a	10.3
	Base 24	n/a	n/a	3.0	n/a	n/a	n/a	n/a

Base-8 Mechanical Data

	Tested acc. to	Condition	24F 3 x MTP8	48F 6 x MTP8	96F 12 x MTP8
Max. Tensile Strength Cable (N)	IEC 60794-1-2 E1	During installation	600	800	1400
		In service	4 x 100	6 x 100	12 x 100
Crush Resistance (N/dm)	IEC 60794-1-2 E3	Short-term	5000		
		Long-term	1000		
Min. Bending Radius (mm)	IEC 60794-1-2 E11	During installation	90	110	150
		In service	60	70	100
Tensile Strength Connector (N)	IEC 60794-1-2 E1		50		

Base-12 Mechanical Data

	Tested acc. to	Condition	24F 2 x MTP12	48F 4 x MTP12	72F 6 x MTP12	144F 12 x MTP12
Max. Tensile Strength Cable (N)	IEC 60794-1-2 E1	During installation	600		800	1400
		In service	4 x 100		6 x 100	12 x 100
Crush Resistance (N/dm)	IEC 60794-1-2 E3	Short-term	5000			
		Long-term	1000			
Min. Bending Radius (mm)	IEC 60794-1-2 E11	During installation	90		110	150
		In service	60		70	100
Tensile Strength Connector (N)	IEC 60794-1-2 E1		50			

Base-8 Optipack Cables

1 × MTP® Base-8 to 1 × MTP® Base-8

3 × MTP® Base-8 to 3 × MTP® Base-8

6 × MTP® Base-8 to 6 × MTP® Base-8

12 × MTP® Base-8 to 12 × MTP® Base-8

Base-12 Optipack Cables

1 × MTP® Base-12 to 1 × MTP® Base-12

2 × MTP® Base-12 to 2 × MTP® Base-12

4 × MTP® Base-12 to 4 × MTP® Base-12

6 × MTP® Base-12 to 6 × MTP® Base-12

12 × MTP® Base-12 to 12 × MTP® Base-12

Base-24 Optipack Cables

1 × MTP® Base-24 to 1 × MTP® Base-24

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