

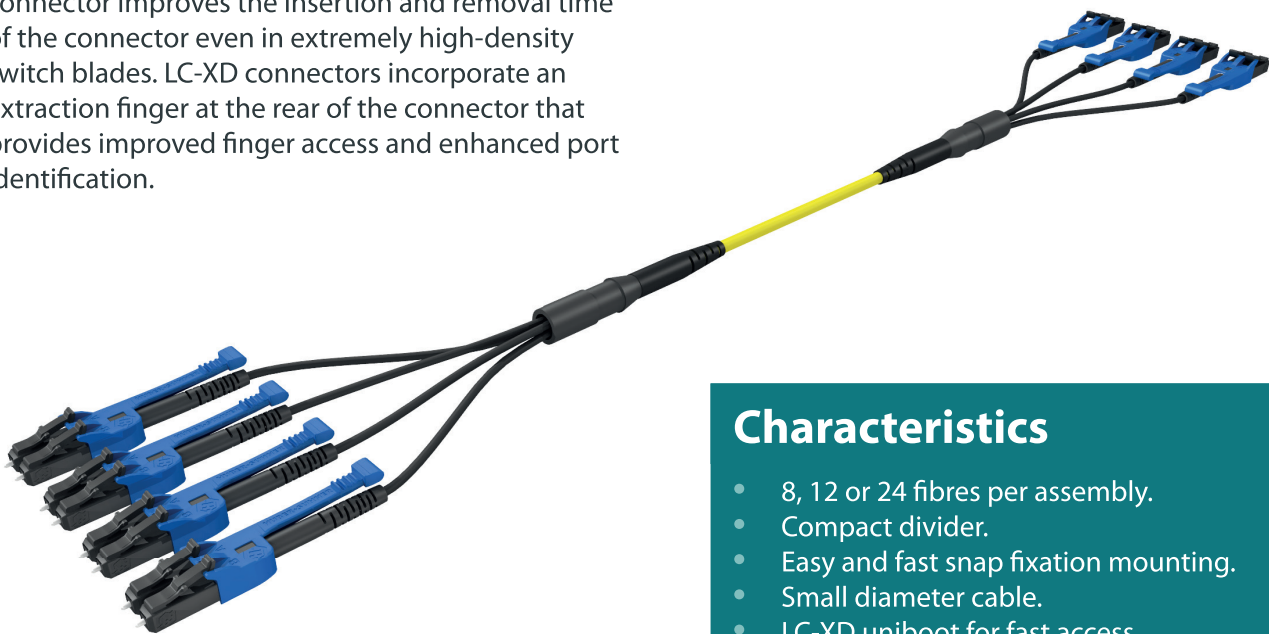
PRODUCT OVERVIEW

Base-2 LC Optipack harnesses are used as pre-connectorised backbone links between cabinets in the data centre.

Generally trunk harnesses will be connected to the rear side of patching modules and LC jumpers will be used as equipment cords to servers and switches.

Base-2 backbones are generally deployed with singlemode fibre because only this fibre offers a future-proofed infrastructure for higher data rates. Multimode LC trunk harnesses are not recommended because LC multimode connectors do not offer an upgrade to 40G or 100G over parallel optics.

LC-XD push-pull connectors are supplied as standard on all transition harnesses because this innovative connector improves the insertion and removal time of the connector even in extremely high-density switch blades. LC-XD connectors incorporate an extraction finger at the rear of the connector that provides improved finger access and enhanced port identification.

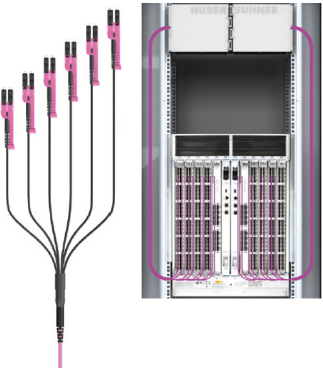
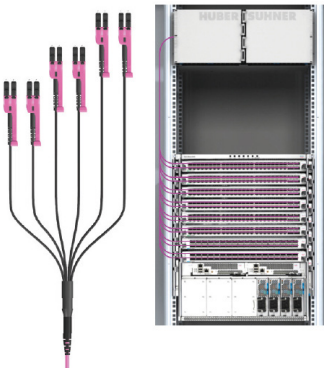
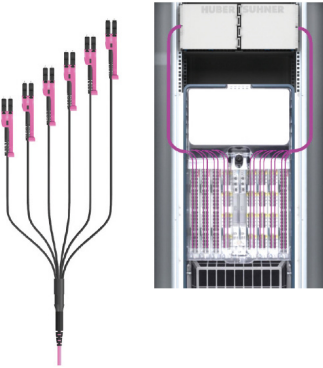


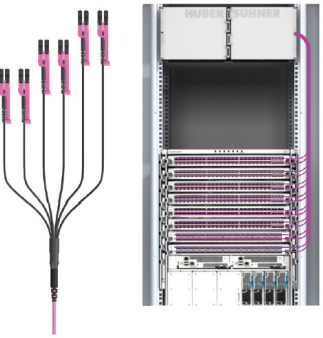
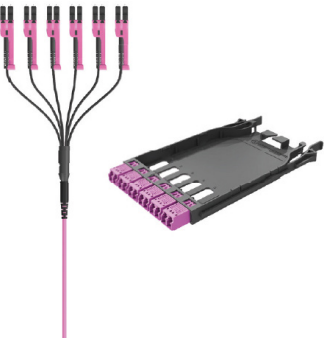
Characteristics

- 8, 12 or 24 fibres per assembly.
- Compact divider.
- Easy and fast snap fixation mounting.
- Small diameter cable.
- LC-XD uniboot for fast access.
- Bend-optimised fibre.
- Available in SM and OM4.
- Fan-out lengths to match equipment.
- CPR compliant, grade Dca.

Fan-outs To Match Your Equipment

HUBER+SUHNER offers harnesses with different stagger lengths so that users can match their harness to the blade orientation and port allocations of the switch. Some blades are vertically orientated and others are horizontal. This change in orientation has an impact on the numbering scheme of the ports and can result in a mismatch between the harness tail length and the port position. Furthermore, a switch is often fed from two different sides of the rack. In this case fan-out leg type 1 may need to be the shortest leg on the left side of the switch but the longest leg on the right hand side.

Type 1 Fan-out	Type 2 Fan-out	Type 3 Fan-out
1-2-3-4-5-6	1-2-3-4-5-6	6-5-4-3-2-1
		
<ul style="list-style-type: none"> • 15mm staggering • Individual leg lengths • No. 1 on shortest leg 	<ul style="list-style-type: none"> • 15mm staggering • Pairwise leg lengths • No. 1 on shortest leg 	<ul style="list-style-type: none"> • 15mm staggering • Individual leg lengths • No. 1 on longest leg

Type 4 Fan-out	Type 5 Fan-out
6-5-4-3-2-1	1-2-3-4-5-6
	
<ul style="list-style-type: none"> • 15mm staggering • Pairwise leg lengths • No. 1 on longest leg 	<ul style="list-style-type: none"> • Equal leg lengths (max. 100cm) • Used as generic harness for all patching modules (rear patching)

General Specification

Application		Data centre equipment 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	LC-XD (uniboot)
	Side B	LC-XD (uniboot)
Furcation / fan-out shortest /longest length	Side A	Furcation fan-out LC-XD
	Side B	Furcation fan-out LC-XD
Fibre allocation	H+S Specific	A straight / A pair flip

Optical Performance

	Tested acc. to	Option	Values
Insertion Loss	IEC 61300-3-4	SM	<0.30dB
		OM4	<0.15dB
Return Loss	IEC 61300-3-6	SM APC	>65dB
		SM PC	>50dB
		OM4 PC	>35dB

Mechanical Data

	Tested acc. to	Option	Values
Max. Tensile Strength	IEC 60794-1-2- E1	During installation	150N
Minimal Bending Radius	IEC 60794-1-2- E11	During installation	20mm
		In service	10mm

Environmental Data

	Tested acc. to	Option	Values
Fire Propagation	IEC 60332-1-2	On vertical single cable	Passed
	IEC 60332-3-24	On vertical cable bundle	Passed
Fire Performance			Dca-s1,d0,a1
2011/65/EC (RoHS)			Compliant

2 Optipack LC-LC Harness



4 x LC Duplex to 4 x LC Duplex



6 x LC Duplex to 6 x LC Duplex



12 x LC Duplex to 12 x LC Duplex