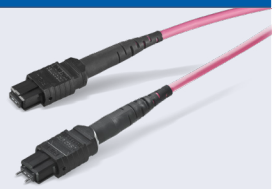
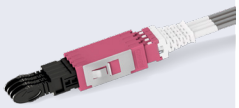
PreCONNECT® OCTO cabling systems

Comparison of the PreCONNECT® OCTO systems - MTP®, LC, SN® Quad and MDC Quad

Characteristics	MTP®	LC	SN® Quad | MDC Quad
			
Standardization, market penetration	high	high	growing
Transceiver: Multimode SR4 and Singlemode DR4/PSM4, InfiniBand™ 4X	available	not available	available
Time efficiency during installation	medium	low	high
Protection of connector surfaces against dirt and damage during trunk installation	yes, with PURE	yes, with PURE	yes
Insensitivity to dirt when patched frequently during operation	medium	medium	medium
Inspection and cleaning	demanding	medium	medium
Duplex port breakout	using cassettes / harnesses	direct	direct
During service work, individual duplex channels accessible at each plug connection through-out the entire transmission channel and at the transceiver	no	yes	yes
Max. duplex port density per HU	384	96	128
Trunk leg dividers	not necessary	necessary	necessary
Min. possible leg diameter	2 mm	1.6 mm	1.6 mm
Polarity	complex	simple	simple
Connector gender	male/female	male	male
Ferrule material	plastic-glass composite	ceramic	ceramic
Max insertion loss SM (IL) according to IEC61300-3-4 as per reference method B	Standard: Basic 0.4 dB Elite: Basic 0.3 dB / PURE 0.2 dB	Basic 0.3 dB PURE 0.2 dB	Basic 0.3 dB PURE 0.2 dB
Max insertion loss OM4 (IL) according to IEC61300-3-4 as per reference method B	Elite: Basic 0.35 dB PURE 0.25 dB	Basic 0.15 dB PURE 0.15 dB	Basic 0.15 dB PURE 0.15 dB
Min. return loss SM PC (RL) according to IEC61300-3-6 as per reference method 1	there is no MTP® SM PC	Basic 45 dB PURE 45 dB	Basic 45 dB PURE 45 dB
Min. return loss SM UPC (RL) according to IEC61300-3-6 as per reference method 1	there is no MTP® SM UPC	Basic 55 dB PURE 55 dB	Basic 55 dB PURE 55 dB
Min. return loss SM APC (RL) according to IEC61300-3-6 as per reference method 1	Basic 55 dB PURE 70 dB	Basic 65 dB PURE 70 dB	Basic 65 dB PURE 70 dB
Min. return loss OM4 PC (RL) according to IEC61300-3-6 as per reference method 1	Basic 30 dB PURE 30 dB	Basic 35 dB PURE 40 dB	Basic 35 dB PURE 40 dB
Min. return loss OM4 APC (RL) according to IEC61300-3-6 as per reference method 1	Basic 50 dB PURE 55 dB	not applicable	not applicable

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