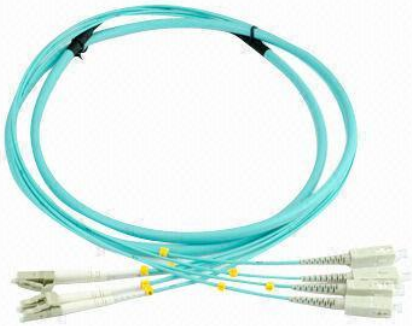
DME PROLINK
CONNECTING THE GLOBE

D131x-apbpmslc

TECHNICAL DATA

Fiber Optic Patch Cords
Simplex LSZH


Description

DME PROLINK's patch cords are state-of-art product which are made through advanced polishing and assembly procedures. The multimode patch cords are offered with a Physical Contact (PC) polish as standard, whilst single-mode connectors are available with a Ultra Physical Contact (UPC) polish as standard and an Angled Physical Contact (APC) polish on request.

Different connector types may be combined to produce 'hybrid' patch cords. All patch cords are tested to ensure the highest quality standards are met.

Features & Benefits

✓Patch cords compliant with EIA/TIA 568B, TIA 604 FOCIS 3 and ISO 11801 for optical performance and intermateability.
✓Ultra low return loss
✓Low insertion loss
✓All Patch cords are 100% optically inspected and tested individually.
✓All patch cords with Ceramic ferrule
✓LSZH
✓Available in ITU-T G.652D and G.657B.
✓Insertion loss and return loss values certificated and sent with every patch cord
✓Factory installed connectors

Technical Assistance
Middle East - +971 (4) 8118000
www.ecsglobalwire.com

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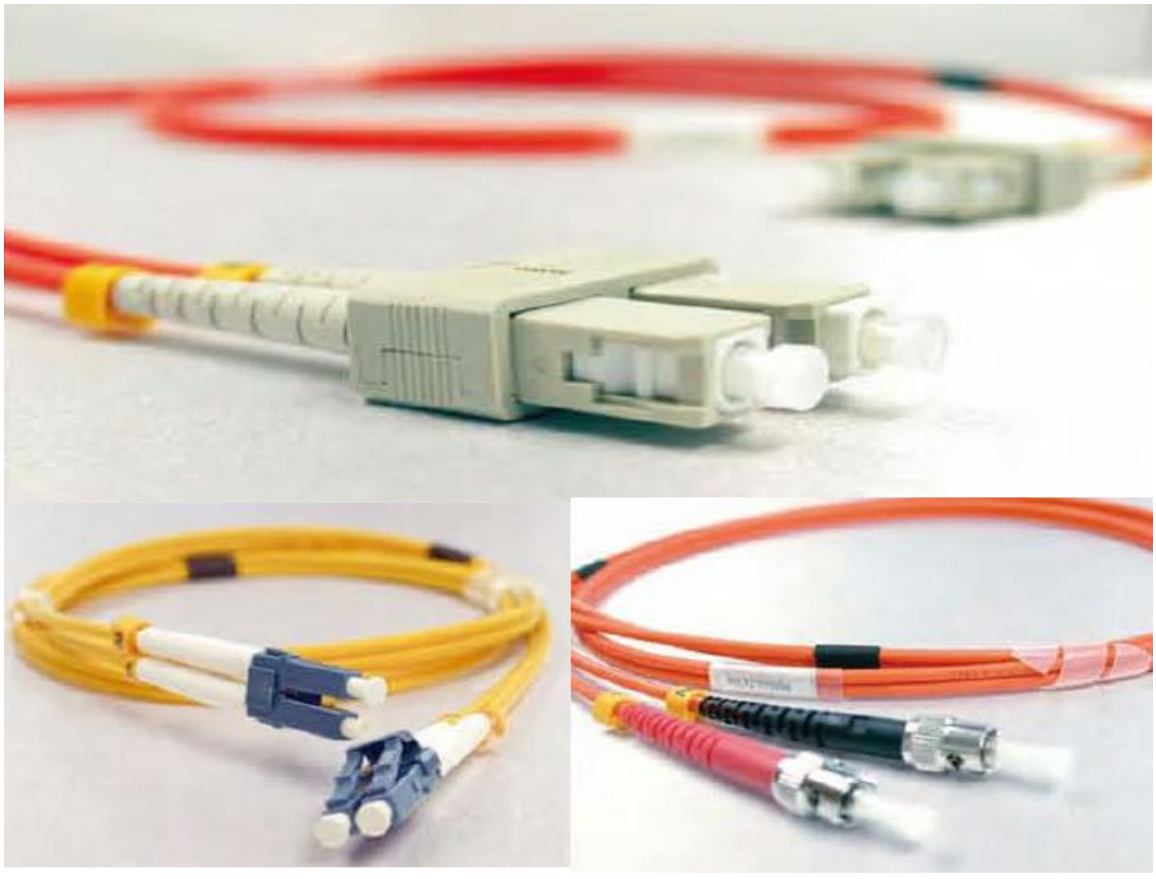
TECHNICAL SPECIFICATIONS:				
Fiber type		Multi Mode (GI) 62.5/125	Multi Mode (GI) 50/125	Single Mode (SM) 9/125 SMF
Operating wavelength range		850/1300 ± 20	850/1300 ± 20	1310/1550 ± 30
Typical Insertion Loss		≤ 0.2	≤ 0.2	≤ 0.2
Maximum Insertion Loss (@850nm)		≤ 0.3	≤ 0.3	≤ 0.3
Typical Return Loss (Back Reflection)	PC	≥ 35 dB	≥ 35 dB	≥ 45 dB
	UPC		–	≥ 55 dB
	APC		–	≥ 60 dB
Mating Durability (500 Cycles)		≤ 0.2 dB	≤ 0.2 dB	≤ 0.2 dB
Operating temperature		-40 ~ +75	-40 ~ +75	-40 ~ +75
Storage temperature		-40 ~ +85	-40 ~ +85	-40 ~ +85
Cable Retention (900µm)		2 lbs.	2 lbs.	2 lbs.



TÜV NORD ISO 9001

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Difference between PC, UPC and APC

Fiber optic cables have different types of mechanical connections. The type of connection determines the quality of the fiber optic light wave transmission. The different types are the flat-surface, Physical Contact (PC), Ultra Physical Contact (UPC), and Angled Physical Contact (APC).

The original fiber connector is a flat-surface connection, or a flat connector. When mated, an air gap naturally forms between the two surfaces from small imperfections in the flat surfaces. The back reflection in flat connectors is about -14 dB or roughly 4%.

As technology progresses, connections improve. The most common connection now is the PC connector. Physical Contact connectors are just that—the end faces and fibers of two cables actually touch each other when mated.

In the PC connector, the two fibers meet, as they do with the flat connector, but the end faces are polished to be slightly curved or spherical. This eliminates the air gap and forces the fibers into contact. The back reflection is about -40 dB. This connector is used in most applications.

An improvement to the PC is the UPC connector. The end faces are given an extended polishing for a better surface finish. The back reflection is reduced even more to about -55 dB. These connectors are often used in digital, CATV, and telephony systems.

The latest technology is the APC connector. The end faces are still curved but are angled at an industry-standard eight degrees. This maintains a tight connection, and it reduces back reflection to about -70 dB. These connectors are preferred for CATV and analog systems.

PC and UPC connectors have reliable, low insertion losses. But their back reflection depends on the surface finish of the fiber. The finer the fiber grain structure, the lower the back reflection. And when PC and UPC connectors are continually mated and re-mated, back reflection degrades at a rate of about 4 to 6 dB every 100 matings for a PC connector. APC connector back reflection does not degrade with repeated matings.

Fiber Optic Patch Cords

Simplex LSZH

D	1	3	1	x	-	a	p	b	p	m	s	l	c

x	Pin assigned by ECS
0-9	Inventory Management Index

a	Connector Type A-End
ST	ST
SC	SC
LC	LC
FC	FC

p	Polish Type
P	PC
A	APC
U	UPC

b	Connector Type B-End
ST	ST
SC	SC
LC	LC
FC	FC

Fiber Optic Patch Cords

Simplex LSZH

D	1	3	1	x	-	a	p	b	p	m	s	l	c

p	Polish Type
P	PC
A	APC
U	UPC

m	Mode
0	OM1
1	OM2
2	OM3
3	OM4
6	OS1
7	OS2

s	Specification
	No Spec
2D	G.652D
7B	G.657B

l	Patch cord Length (m)
1-10	1-10m

Fiber Optic Patch Cords
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D	1	3	1	x	-	a	p	b	p	m	s	l	c

c	Sheath Color
RD	Red
OR	Orange
YW	Yellow
AQ	Aqua
WT	White

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