Description

HCS DataLight Patch Cords and Pigtails series provides a full range of high quality assemblies, supporting all state-of-the-art connectors types, including ST, SC, SC/APC FC, FC/APC, LC and MT-RJ, MPO and MTP. Other types, such as SMA, FDDI, and VF-45 are available upon request. HCS DataLight Patch Cords and Pigtails are available with all fiber types including Singlemode 9/125 microns, Multimode 50/125 microns and Multimode 62.5/125 microns fibers in any length required.
HCS DataLight Patch Cords and Pigtails are available with different buffer and jacket types and colors, including bare fibers (250 microns), tight buffers (900 microns) or jacketed minicables in Simplex or Duplex (Zip-cord) constructions.
HCS DataLight Patch Cords and Pigtails can be custom-made with breakout or MTD cables in multi-fiber constructions.
HCS DataLight Patch Cords and Pigtails comply with both major industry standards, ANSI/TIA-568.3-D (Optical Fiber Cabling Components Standard) and IEC 60874 (Connectors for optical fibers and cables) and they are supported by the DoubleSafe™ QA program as a part of complete HCS cabling system.

Applications

- ☑ FiberOptic cross connect, patch panels, and distribution point connection.
- ☑ ODF connections.
- ☑ Fiber to the desk connection.
- ☑ Active FiberOptic equipment connection.

Qualifications and Approvals

HCS DataLight components are supported by the DoubleSafe™ QA program as a part of complete HCS cabling system and comply to ANSI/TIA-568.3-D (Optical Fiber Cabling Components Standard) and IEC 60874 (Connectors for optical fibers and cables).

Benefits & Features

- ➔ Full compliance to industry standards - Providing high quality components.
- ➔ Available with all major fiber types - Providing a wide range of products.
- ➔ Available with all major connector types, including hybrid constructions - Providing a wide range of products.
- ➔ Available in 12 different colors - Providing a better compatibility and a wider selection range.
- ➔ Robust design - Providing low rejection and replacement rates.
- ➔ Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.

TECHNICAL SPECIFICATIONS - CONNECTORS

Connector Type / Connector Part	SC IEC 61754-4	SC/APC IEC 61754-4	ST	FC IEC 61754-13	FC/APC IEC 61754-13	MT-RJ IEC 61754-18	LC IEC 61754-20	MPO/MTP IEC 61754-7
Connector Housing	Thermoplastic	Thermoplastic	Thermoplastic Nickel Plated Zinc	Nickel Plated Zinc	Nickel Plated Zinc	Thermoplastic	Thermoplastic	Polybutylene Terephthalate
Connector Ferrule	Zirconia Ceramic	8° Zirconia Ceramic	Zirconia Ceramic	Zirconia Ceramic	8° Zirconia Ceramic	Thermoplastic	Ceramic	PPS
SM Alignment Sleeve	Zirconia Ceramic	Zirconia Ceramic	Zirconia Ceramic	Zirconia Ceramic	Zirconia Ceramic	-	Ceramic	NS
MM Alignment Sleeve	Zirconia Ceramic	-	Metal	Zirconia Ceramic	-	-	Ceramic	NS
Boot	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Silicone
SM Backbone	Aluminum	Aluminum	Zinc Alloy	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
MM Backbone	Aluminum	-	Zinc Alloy	Aluminum	-	Aluminum	Aluminum	Aluminum
Flame Test	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0

Note: MM=Multimode, 50/125µm and 62.5/125µm fibers. SM=Singlemode 9/125µm fibers.

TECHNICAL SPECIFICATIONS - TRANSMISSION PROPERTIES

Connector Type / Properties	SC	SC/APC	ST	FC	FC/APC	MT-RJ	LC	MPO/MTP
SM Attenuation @ 1300nm	Select Level 1 to 4 See Below	Mean: 0.2 dB Sigma: 0.1 dB	Mean: 0.2 dB Sigma: 0.1 dB	Mean: 0.2 dB Sigma: 0.1 dB	Mean: 0.2 dB Sigma: 0.1 dB	Mean: 0.2 dB Sigma: 0.1 dB	Select Level 1 to 4 See Below	Mean:0.35 dB Sigma: 0.12dB
MM Attenuation @ 1300nm		-	Mean: 0.15 dB Sigma: 0.05 dB	Mean: 0.15 dB Sigma: 0.05 dB	-	Mean: 0.15 dB Sigma: 0.05 dB		Mean:0.35 dB Sigma: 0.12 dB
SM Return Loss	Min: 50 dB Mean: 58 dB	Min: 65 dB Mean: 80 dB	Min: 50 dB Mean: 58 dB	Min: 50 dB Mean: 58 dB	Min: 65 dB Mean: 80 dB	Min: 50 dB Mean: 58 dB	Min: 50 dB Mean: 58 dB	Min:55 dB Mean: 60dB
MM Return Loss	Min: 25 dB D Max: 0.2 dB	-	Min: 25 dB Mean: 27 dB	Min: 25 dB Mean: 27 dB	-	Min: 25 dB D Max: 0.2 dB	Min: 25 dB D Max: 0.2 dB	Min:25 dB D Max:0.2dB
SM Connection Dur.	D Max: 0.2 dB	D Max: 0.2 dB	D Max: 0.1 dB	D Max: 0.2 dB	D Max: 0.2 dB	D Max: 0.2 dB	D Max: 0.2 dB	D Max:0.2dB
MM Connection Dur.	D Max: 0.2 dB	-	D Max: 0.2 dB	D Max: 0.2 dB	-	D Max: 0.2 dB	D Max: 0.2 dB	D Max:0.2 dB
SM Mating Cycles	500	500	500	500	500	500	500	500
MM Mating Cycles	500	-	500	500	-	500	500	500
Temp. Range	-40 to +85C	-40 to +85C	-40 to +85C	-40 to +85C	-40 to +85C	-40 to +85C	-40 to +85C	-40 to +85C

The attenuation level of both SM and MM cords and pigtails shall be selected as needed.
Optional attenuation levels per connector:
4= 0.10 dB
3= 0.15 dB
2= 0.30 dB
1= 0.50 dB

P/N SYSTEM - TERMINATED MODULAR FIBER OPTIC CORDS

Basic P/N									Length
T	NN	-	X			NN	AB	-	XX
T	Fiber Type	-	Cable Type & OD			Color	Connectors	-	dm
Select from		#	Cable	OD mm					
HCS Fiber Option Table		A	Bare Fiber	0.25		00=Natural	1=ST		nn=dm
		B	Tight-Buffered Fiber	0.9		01=Blue	2=SC		An=10m+
		E	Simplex LS0H	1.6		02=Orange	3=SC/APC		Bn=20m+
		K	Simplex LS0H	2		03=Green	4=FC		Cn=30m+
		M	Duplex Zip LS0H	2.0x4.1		04=Brown	5=FC/APC		Dn=40m+
		T	Duplex Zip LS0H	1.6x3.3		05=Gray	6=MT-RJ - Female		En=50m+
		V	Duplex Zip LS0H + 2x28AWG TC Wires	2.0x4.1		06=White	8=LC		Fn=60m+
		U	Duplex Single-Boot LS0H + Push-Pull Tab	2		07=Red	J=MT-RJ - Male		Gn=70m+
		Y	Duplex Single-Boot LS0H + Push-Pull Tab	3		08=Black	K=LC Duplex + Comm. Pin		Hn=80m+
		Z	Duplex Single-Boot LS0H + Push-Pull Tab	1.6		09=Yellow	L=SC Duplex + Comm. Pin		In=90m+
						10=Violet	M=LC/APC		
						11=Aqua	N=Mini-LC		
							Y=IP68 LC DX/UPC		