

Your Optical Fiber Solutions Partner®

Industrial Networking Solutions Easy to learn, quick to connect SC

WindPower

Winds of Change with GiHCS[®] GiHCS[®] industrial cabling solution from OFS answers the call

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New and improved! Industrial Cables, Crimp and Cleave SC Connectors, Kits

Industrial Ethernet provides seamless data integration within the control systems of wind turbines with real-time visibility to operational data for wind farms and their operators. Ethernet has dramatically improved the data collection and exchange landscape, but harsh physical conditions of installed cable plants remain a challenge.

Issues of system reliability and cable installation simplicity abound:

- Electrical noise
- · Widely fluctuating temperatures
- High vibration
- · Exposure to industrial oils
- The need for more rapid restoration of damaged cabling
- The need for simpler modifications

These are the real-world challenges faced by turbine designers. The GiHCS solution from OFS answers the call with durable high-bandwidth multimode optical fiber cabling solutions, strength enhanced glass, ruggedized industrial cables, and crimp/cleave SC connector technology, making plug-in interoperability with common GBIC transceivers and reliable transmission of Ethernet data possible. Additionally, SC-RJ is a small form factor connector, small enough to fit within the space of a standard RJ-45 electrical connector.



GiHCS, LSZH/OFNR Riser Rated Industrial Cables:

- For Fast (100Mb/sec) and Gigabit Ethernet (1000 Mb/sec)
- Operating temperature: -20 to +80 °C
- For use indoors or outdoors
- · High tensile strength
- · Abrasion, vibration, and chemically resistant
- 2.5 mm Zipcord and Breakout Cables
- PVC-free design
- RoHS and REACH compliant

Crimp and Cleave SC Connectors and Kits:

- · Compatible with GBIC transceivers
- No power, no epoxy, no gels, no polishing
- · Easy to learn, quick to connect
- · Optical fiber specialists not required

GHCS Index Hard Coats Stilicat Cable Construction Part Number Use Part Diameter Outer Cable Code Outer Haterial Code Outer Load Cable Made Code Min. Bind Load Max. Installation Struction Max. Operating Tensile Max. Deprating Tensile Max. Tensile Max. Deprating Tensile Max. Tensile Max. Deprating Tensile Max. Tensile Max. Deprating Tensile Max. Tensile	GiHCS® Optical Fiber Cables													
Zipord Weiterblocked C26642 Indoor 2.5 x 5.2 m Orange LS2H kglkm 38 mm 25 mm f(734 N) 8,5 bs (738 N) A participation 2-Fiber Weiterblocked C26644 Indoor/ 8.0 mm Black LS2H kglkm 120 mm 80 mm 310 lbs 155 bs (895 N) 53.5 dBkm 20 to +80 °C 4-Fiber Weiterblocked C26646 Indoor/ 8.0 mm Black LS2H kglkm 120 mm 80 mm 310 lbs 155 bs (895 N) 53.5 dBkm 20 to +80 °C 4-Fiber Weiterblocked C26646 Indoor/ 8.0 mm Black LS2H kglkm 120 mm 80 mm 530 lbs 265 lbs 695 N) 20 to +80 °C 4-Fiber Weiterblocked C26647 Indoor/ 8.0 mm Black LS2H kglkm 38 mm 25 mm 165 lbs 85 lbs 40 dB/km 20 to +80 °C 4-Fiber Weiterblocked C26647 Indoor/ 8.0 mm Black LS2H kglkm 120 mm 80 mm 310 lbs 155 bs 40 dB/km 20 to +80 °C 4-Fiber Weiterblocked C2664	GiHCS Graded-Index Hard Coat Silica*	Cable Construction	Part Number	Use	Outer Cable Diameter	Outer Jacket Color	Outer Jacket Material	Cable Weight	Min. Bend Radius Under Load	Min. Bend Radius Unloaded	Max. Installation Tensile Load	Max. Operating Tensile Load	Attenuation	Operating Temperature
Year Year Year	GiHCS 50/200/230/500 µm	Zipcord	C26642	Indoor	2.5 x 5.2 mm	Orange	LSZH	<11.0 kg/km	38 mm	25 mm	165 lbs (734 N)	85 lbs (378 N)		-20 to +80 °C
3 4-Fiber Waterblocked C26646 Indoor/ Outdoor 8.0 mm Black LSZH 545, kg/km 120 mm 80 mm 530 bs (235 N) 265 bs (1179 N) -20 to +80 °C 4-Fiber Waterblocked C26643 Indoor 2.5 x 5.2 mm Orange LSZH 540, kg/km 38 mm 25 mm 165 bs (734 N) 65 bs (378 N) -20 to +80 °C 2-Fiber Waterblocked C26643 Indoor 2.5 x 5.2 mm Orange LSZH 540, kg/km 38 mm 25 mm 165 bs (734 N) 65 bs (378 N) -20 to +80 °C 2-Fiber Waterblocked C266445 Indoor/ 8.0 mm Black LSZH 545, kg/km 120 mm 80 mm 310 bs (1379 N) 155 bs (689 N) 54.0 dB/km (250 mm (250 mm (2100 m) -20 to +80 °C 4-Fiber Waterblocked C266447 Indoor/ 8.0 mm Black LSZH 54.0 kg/km 120 mm 80 mm 310 bs (1379 N) 155 lbs (689 N) 54.0 dB/km (250 mm (21300 m) -20 to +80 °C 4-000000000000000000000000000000000000		2-Fiber Waterblocked	C26644	Indoor/ Outdoor	8.0 mm	Black	LSZH	<45.0 kg/km	120 mm	80 mm	310 lbs (1379 N)	155 lbs (689 N)	≤3.5 dB/km @850 nm ≤1.5 dB/km @1300 nm	-20 to +80 °C
Image: space spac		4-Fiber Waterblocked	C26646	Indoor/ Outdoor	8.0 mm	Black	LSZH	<45.0 kg/km	120 mm	80 mm	530 lbs (2358 N)	265 lbs (1179 N)		-20 to +80 °C
Image: Spect of S	GiHCS 62.5/200/230/500 µm	Zipcord	C26643	Indoor	2.5 x 5.2 mm	Orange	LSZH	<11.0 kg/km	38 mm	25 mm	165 lbs (734 N)	85 lbs (378 N)		-20 to +80 °C
Si 4-Fiber Waterblocked C26647 Indoor/ Outdoor 8.0 mm Black LSZH <45.0 kg/km 120 mm 80 mm 530 lbs (2358 N) 265 lbs (1179 N) -20 to +80 °C Fire Safety		2-Fiber Waterblocked	C26645	Indoor/ Outdoor	8.0 mm	Black	LSZH	<45.0 kg/km	120 mm	80 mm	310 lbs (1379 N)	155 lbs (689 N)	≤4.0 dB/km @850 nm ≤2.0 dB/km @1300 nm	-20 to +80 °C
Fire Safety		4-Fiber Waterblocked	C26647	Indoor/ Outdoor	8.0 mm	Black	LSZH	<45.0 kg/km	120 mm	80 mm	530 lbs (2358 N)	265 lbs (1179 N)		-20 to +80 °C
	Fire Safety													

Qualified to the following US, Canadian and International Standards. OFNR/FT-4 Riser, US and Canadian UL 1666, Flammability IEC 60332-3 (for zipcord, 2-Fiber & 4-Fiber cables), Smoke Density IEC 61034, Halogen Gas Emissions IEC 60745-1, Acid Gas Emissions IEC 60745-2

Crimp and Cleave SC Connectors for GiHCS [®] Optical Fiber Cables						SC Connector Insertion Loss (dB)					
Connector Type	Part Number	Cable Type	Termination Kit Part #	Insertion Loss Kit Part #			850) nm		1300 nm	
Simplex	P25561-BKS (Black)	2.5 mm Zipcord and Breakout Cables	DT03732-SC1	P10188-14			Typical	Maximum	Typical	Maximum	
	P25561-BGS (Beige)					50/200/230 GiHCS	1.0	1.5	1.2	1.7	
Duplex	P25561-BKD (Black) P25561-BGD (Beige)										
						62.5/200/230 GiHCS	0.7	1.2	0.9	1.4	
SC-RJ	D25561-RKD I (Black)										
	P25561-BGRJ (Beige)					200/230 HCS®	0.7	1.0	-	-	

GiHCS [®] Optical Fibers											
Fiber*	Dimensions	Numerical Aperture	Band	width	Attenuation						
GiHCS 50 µm	50/200/230/500 µm	0.20 ± 0.02	>400 MHz-km @850 nm	>400 MHz-km @1300 nm	≤2.8 dB/km @850 nm	≤1.0 dB/km @1300 nm					
GiHCS 62.5 µm	62.5/200/230/500 μm	0.275 ± 0.020	>200 MHz-km @850 nm	>500 MHz-km @1300 nm	≤3.5 dB/km @850 nm	≤1.2 dB/km @1300 nm					

