

**INDOOR INDUSTRIAL CABLE
Specification Sheet**

62.5 μm HCS® Indoor Cables

in 2.5 mm Constructions



A Furukawa Company

Product Description

OFS 2.5 mm HCS fiber cables are designed primarily for industrial data-communication applications. Taking advantage of the durability and toughness of HCS optical fibers, these tight-buffer cables surround the fiber with high-strength aramid yarn and are protected with a tough 2.5 mm diameter PVC jacket. Simplex and zipcord, along with 2-, 4-, or 6-fiber breakout configurations are available.

Typical Applications

- Factory automation
- Short- to medium-distance communications

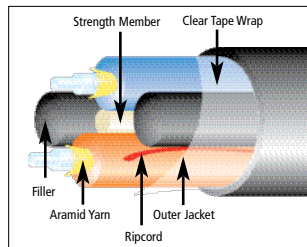
Features and Benefits

- 200 μm form-factor, fiber-based for high strength and reliability
- Uses HCS fiber coating for durability in harsh environments
- Flame retardant
- Small and flexible constructions
- Crimp and cleave ST/SMA connectors are applied in only a few minutes
- Cost-effective termination solution for data communication jumpers
- RoHS compliant (EC 2002/95/EC, dated 27 January, 2003)

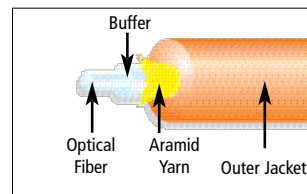
Related Products & Capabilities

- ST/SMA Crimp & Cleave or epoxy-polish connectors sold separately
- Preterminated assemblies/jumpers
- Also available in Low Smoke Zero Halogen (LSZH) configurations
- Crimp and Cleave Termination Kits to match chosen connectors
- Kit for Insertion Loss Testing at 660 and 850 nm

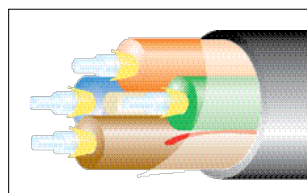
Typical Cable Constructions



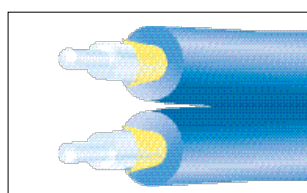
2-Fiber with Aramid Yarn
Part # C17761



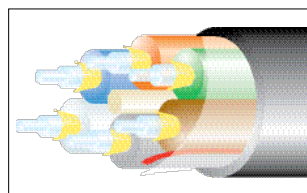
Simplex
Part # C17757 Riser
Part # C17758 Plenum



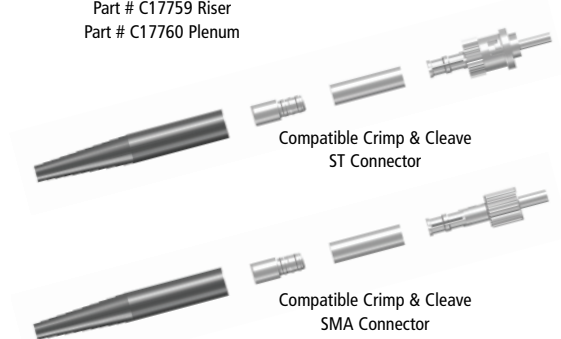
4-Fiber with Aramid Yarn
Part # C17762



Zipcord
Part # C17759 Riser
Part # C17760 Plenum



6-Fiber with Aramid Yarn
Part # C17763



Ask us about options available with this cable construction:

- Uncabled Fiber**
- Higher Fiber Counts**
- Additional Jacket Colors**
- Connectorization**
- Other Upgrades**

To order items on this spec sheet, please contact our facility in:

- Avon, Connecticut
1-860-678-0371
1-888-438-9936 toll free (USA and Canada only)
Fax 1-860-674-8818
- or by email inquiry to:
Info@SpecialtyPhotonics.com



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Indoor 62.5 μm Cable Specifications

Optical Properties	2.5 Riser Simplex Graded-Index 62.5 μm	2.5 Plenum Simplex Graded-Index 62.5 μm	2.5 Riser Zipcord Graded-Index 62.5 μm	2.5 Plenum Zipcord Graded-Index 62.5 μm
Attenuation @ 850 nm Attenuation @1300 nm	≤4 dB/km ≤2 dB/km	≤4 dB/km ≤2 dB/km	≤4 dB/km ≤2 dB/km	≤4 dB/km ≤2 dB/km
Cable Design				
Fiber core diameter	62.5 ± 3 μm	62.5 ± 3 μm	62.5 ± 3 μm	62.5 ± 3 μm
Sub-unit diameter	not applicable	not applicable	2.5 ± 0.2 mm	2.5 ± 0.2 mm
Outer cable diameter	2.5 mm	2.5 mm	2.5 x 5.2 mm	2.5 x 5.2 mm
Cable weight	6.5 kg/km	8.0 kg/km	11.0 kg/km	13.5 kg/km
Fiber count/construction	Simplex	Simplex	Zipcord	Zipcord
Intended environment	Indoor	Indoor	Indoor	Indoor
Outer jacket material	PVC	PVC	PVC	PVC
Outer jacket color	Orange	Orange	Orange	Orange
Flammability rating	UL-1666	NFPA 262	UL-1666	NFPA 262
Installation and Usage Specifications				
Maximum installation tensile load	110 lbs. (489 N)	110 lbs. (489 N)	165 lbs. (734 N)	165 lbs. (734 N)
Maximum operating tensile load	55 lbs. (245 N)	55 lbs. (245 N)	85 lbs. (378 N)	85 lbs. (378 N)
Minimum bend radius under load	38 mm	38 mm	38 mm	38 mm
Minimum bend radius unloaded	25 mm	25 mm	25 mm	25 mm
Operating temperature	-20 to +80°C	0 to +75°C	-20 to +80°C	0 to +75°C
Storage temperature	-40 to +80°C	-20 to +75°C	-40 to +80°C	-20 to +75°C
Product Description Code	HCU-MF062T-A01RS	HCU-MF062T-A01PS	HCU-MF062T-A02RZ	HCU-MF062T-A02PZ
Order by Part Number	C17757	C17758	C17759	C17760

Optical Properties	Riser 2-Fiber Breakout Graded-Index 62.5 μm	2.5 Riser 4-Fiber Breakout Graded-Index 62.5 μm	2.5 Riser 6-Fiber Breakout Graded-Index 62.5 μm
Attenuation @ 850 nm Attenuation @ 1300 nm	≤4 dB/km ≤2 dB/km	≤4 dB/km ≤2 dB/km	≤4 dB/km ≤2 dB/km
Cable Design			
Fiber core diameter	62.5 ± 3 μm	62.5 ± 3 μm	62.5 ± 3 μm
Sub-unit diameter	2.5 ± 0.2 mm	2.5 ± 0.2 mm	2.5 ± 0.2 mm
Outer cable diameter	8.0 mm	8.0 mm	10.0 mm
Cable weight	55.0 kg/km	55.0 kg/km	74.0 kg/km
Fiber count/construction	2-Fiber	4-Fiber	6-Fiber
Intended environment	Indoor	Indoor	Indoor
Outer jacket material	PVC	PVC	PVC
Outer jacket color	Black	Black	Black
Flammability rating	UL-1666	UL-1666	UL-1666
Installation and Usage Specifications			
Maximum installation tensile load	310 lbs. (1375 N)	530 lbs. (2358 N)	750 lbs. (3336 N)
Maximum operating tensile load	155 lbs. (689 N)	265 lbs. (1179 N)	375 lbs. (1668 N)
Minimum bend radius under load	120 mm	120 mm	150 mm
Minimum bend radius unloaded	80 mm	80 mm	125 mm
Operating temperature	-20 to +80°C	-20 to +80°C	-20 to +80°C
Storage temperature	-40 to +80°C	-40 to +80°C	-40 to +80°C
Product Description Code	HCU-MF062T-A02RB	HCU-MF062T-A04RB	HCU-MF062T-A06RB
Order by Part Number	C17761	C17762	C17763

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