

## OPTIONAL CONSTRUCTIONS

Simplex Cables consist of an optical fiber with a 0.6 or 0.9 mm buffer, reinforced with aramid and/or E-glass strength yarns and protected with a flame-retardant PVC or LSOH Jacket. Duplex (Figure-8) Zip cables are made with two identical simplex cables connected in a zip-cord formation, one cable identified with a longitudinal rib and/or with color-coded buffer.

Basic Fiber	As selected from the FIBER OPTIONS Section
Buffer Type	Tight.
Buffer Material	LSOH Halogen free or flame retardant PVC compound
Buffer OD	600 or 900 μm nom.
Number Buffered Fibers	1 or 2
Buffer Colors	1. Blue 2. Orange
Strength Elements	Served aramid and/or E-glass yarns
Individual Jacket Material	LSOH halogen free or flame retardant PVC compound
Individual Jacket OD	1.6, 2.0 or 2.8 mm nom.
Overall Outer Jacket	None.
Standard Jacket Color	Multimode 50/125μm and 62.5/125μm Fibers: Orange RAL 2003 Laser Optimized (10GBE) 50/125μm Fibers: Purple RAL 4005 Singlemode Fibers: Yellow RAL 1021
Standard Surface Marking	Included HCS P/N, cable description, Meter mark and Batch Number
Repeated Bending	300 Cycles/100mm/4Kg (IEC 60794-2-E6)
Max. Impact Resistance	1.0 Joules/125 mm (IEC 60794-1-2-E4)
Max. Crush Resistance	100 N/100mm (IEC 60794-1-2-E3)
Max. Loading During Installation	100 N for Simplex cables. 200 N for Duplex cables.
Max. Loading During Operation	50 N for Simplex cables. 100 N for Duplex cables.
Short Term Bend Radius	15xOD mm min.
Long Term Bend Radius	10xOD mm min.
Storage Temperature	-20 to +60 C
Temperature Operating Range	-20 to +60C
Flame Test	IEC 60332-1
Halogen Content in LSOH Cables	Null

## ORDERING INFORMATION

HCS P/N	Description	Tight Buffer OD μm	Simplex OD (mm)	Duplex OD (mm)	Weight Kg/Km	Cal. Value Kj/m	Notes
LFO-00101	Simplex PVC	600±50	1.6	N/A	4.0	80	-
LFO-00102	Simplex PVC	600±50	2.0	N/A	5.0	115	-
LFO-00103	Simplex PVC	900±50	2.8	N/A	7.5	170	-
LFO-00104	Simplex LSOH	600±50	1.6	N/A	4.0	80	-
LFO-00105	Simplex LSOH	600±50	2.0	N/A	5.0	115	-
LFO-00106	Simplex LSOH	900±50	2.8	N/A	7.5	170	-
LFO-00201	Duplex Zip PVC	600±50	1.6	1.6 x 3.4	7.3	160	FIG-8
LFO-00202	Duplex Zip PVC	600±50	2.0	2.0 x 4.2	10.5	230	FIG-8
LFO-00203	Duplex Zip PVC	900±50	2.8	2.8 x 6.0	15.6	340	FIG-8
LFO-00204	Duplex Zip LSOH	600±50	1.6	1.6 x 3.4	7.3	160	FIG-8
LFO-00205	Duplex Zip LSOH	600±50	2.0	2.0 x 4.2	10.5	230	FIG-8
LFO-00206	Duplex Zip LSOH	900±50	2.8	2.8 x 6.0	15.6	340	FIG-8

### Notes:

The "FO" in the P/N is replaced by the fiber designation selected from the **FIBER OPTIONS** Table.

Packaging options to be discussed with HCS Customer Service.

The default jacket color depends on the fiber type: Orange (RAL 2003) for MM fibers. Yellow (RAL 1021) for SM fibers. Other colors available upon request.

The complete P/N, indicating the packaging type, length & jacket color is built according to the standard **HCS P/N System**.