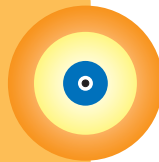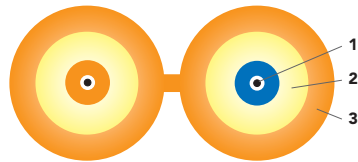# ASSEMBLY AND DATA CENTER CABLES

OCC®

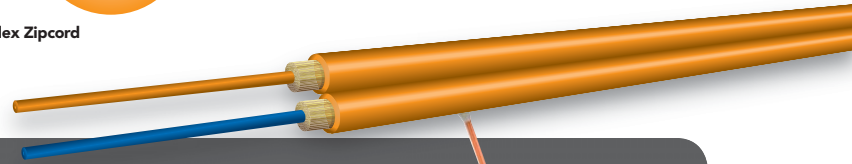(3.3a) A-Series Assembly – Riser, Plenum and LSZH IEC Rated Cables

1. Tight-Buffer Optical Fiber
2. Aramid Strength Member
3. Outer Jacket
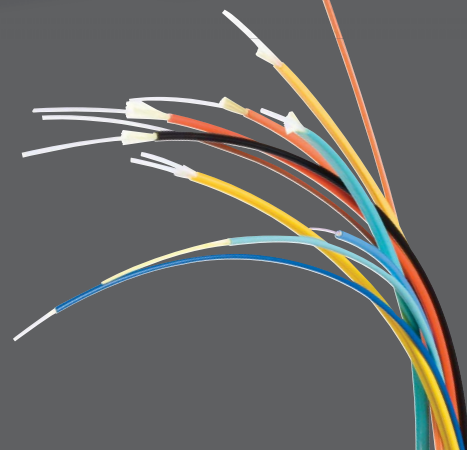
1.
2.
3.

Simplex

Duplex Zipcord

Applications

- Resilient and flexible for jumpers, patch cords, and pigtails
- Suitable for general-purpose indoor use, such as routing connections in patching systems
- Short "patch cord" cables ideal for links between electronic equipment and main fiber optic cables

Features

- Flame-retardant for indoor installations
- Compatible with all standard fiber optic connectors designed for small form-factor simplex and duplex connectors such as MT–RJ and LC connectors
- High-performance tight-buffered coating on each optical fiber for environmental and mechanical protection
- Custom jacket colors are available to match connectors.
- Private labeling on the cable outer jacket is also available
- 1 (simplex) and 2 (duplex) fibers available
- Available with bend-tolerant single-mode and multimode fibers
- Zero-halogen cables (Z jacket) meet the requirements of IEC 60754-2
- "N" jacket riser rated cable is flexible for use where it is desirable for cables to hang neatly
- "D" jacket riser rated cable provides lower friction and greater stiffness for use in protected interconnect runs

Applicable Standards

OCC tight-buffered fiber optic assembly cables meet the functional requirements of the following standards:

- ICEA-S-83-596
- TIA-598
- IEC 60754-2
- GR-409-CORE ISSUE 2
- IEC 60332-3-24
- IEC 61034-2
- TIA-568

Mechanical and Environmental Performance – A-Series Data 2.9mm

	RISER	PLENUM	ZERO HALOGEN
Jacket type	N	S	Z
Operating temperature	-40°C to +85°C	0°C to +70°C	-20°C to +70°C
Storage temperature	-55°C to +85°C	-40°C to +85°C	-40°C to +70°C
Installation temperature (cable temp.)	-10°C to +60°C	0°C to +60°C	0°C to +60°C
Flame retardancy	Riser*	Plenum**	IEC 60332-3-24 and Riser*
Impact resistance (EIA/TIA-455-25A)	1,000 impacts	200 impacts	1,000 impacts
Crush resistance (TIA/EIA-455-41A)	750 N/cm	500 N/cm	750 N/cm
Flex resistance (TIA/EIA-455-104A)	7,500 cycles	2,000 cycles	2,000 cycles

*UL listed type OFNR (UL 1666) and FT4 (CSA C22.2 No. 232)   **UL Listed Type OFNP (ANSI/NFPA 262) and FT6 (CSA C22.2 No. 232)

(3.3a) A-Series Assembly – Riser, Plenum and LSZH IEC Rated Cables

Cable Characteristics:
A-Series Assembly Riser Rated Cables – 2.9mm (N)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
1	2.9 (0.11)	8 (5)	500 (110)	300 (70)	5.0 (2.0)	3.0 (1.2)
2	2.9 x 5.8 (0.11 x 0.23)	16 (11)	1,000 (220)	500 (110)	5.0 (2.0)	3.0 (1.2)

A-Series Assembly Plenum Rated Cables – 2.9mm (S)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
1	2.9 (0.11)	9 (6)	500 (110)	300 (70)	5.0 (2.0)	3.0 (1.2)
2	2.9 x 5.8 (0.11 x 0.23)	18 (12)	1,000 (220)	500 (110)	5.0 (2.0)	3.0 (1.2)

A-Series Assembly LSZH IEC Rated Cables – 2.9mm (Z)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
1	2.9 (0.11)	8 (5)	500 (110)	300 (70)	5.0 (2.0)	3.0 (1.2)
2	2.9 x 5.8 (0.11 x 0.23)	16 (11)	1,000 (220)	500 (110)	5.0 (2.0)	3.0 (1.2)

Ordering Information

A	X	0	0					9		

Digit No:

1	2	3	4	5	6	7	8	9	10	11	12

1	Assembly Series = **A**	
2	Diameter: 2.9mm = **X**	
3 – 5	Fiber count: Simplex = **001**; Duplex = **002**	
6	Jacket type:	
	Flexible PVC = **N**	
	Plenum = **S**	
	Flame-Retardant Zero-Halogen = **Z**	
7 – 9	Fiber type: (see Laser Ultra-Fox Fiber Performance Table, p. 23)	
10	Laser Ultra-Fox fiber with 900µm tight-buffer = **9**	
	Laser Ultra-Fox fiber with 900µm ES2 (Easy Strip) = **2**	
11	Jacket color:	
	62.5µm multimode (WLS, WLX) – Orange = **O**	
	50µm multimode (ALS, ALX) – Orange = **O**	
	50µm 10 Gigabit (ALT, ALE) – Aqua = **Q**	
	Single-mode (SLX, SLA) – Yellow = **Y**	
12	Rating: Riser = **R**; Plenum = **P**; Flame-Retardant Zero-Halogen = **E**	

Example: 2-fiber (duplex) 2.9mm assembly cable using 62.5µm standard Laser Ultra-Fox, orange jacket –

A	X	0	0	2	N	W	L	S	9	O	R