ofs
A Furukawa Company

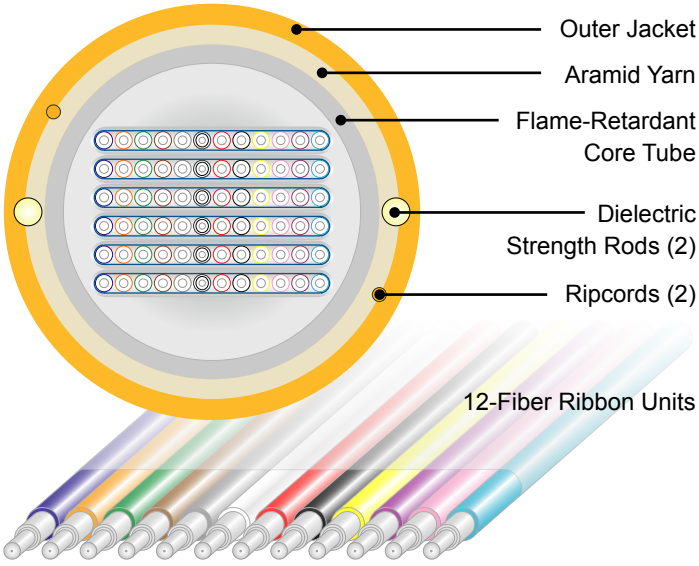
AccuFlex®+ Ribbon Cable

Compact, Flexible Round Ribbon Cable Offers Increased Durability for High-Bandwidth Applications

Features and Benefits

- Compact, flexible, round ribbon design for ease of deployment
- Offers increased durability and enhanced compression resistance
- Outstanding microbend performance
- Available in plenum-rated designs and dual-rated, non-halogen/LSZH designs
- Ideal for use in high-bandwidth applications and optimized for MPO/MPX connectors
- Complies with Telcordia, ICEA, NEC, ANSI-FDDI, IEEE and TIA standards; meets GR-409 and ICEA pull strength requirements for vertical backbone use
- Meets UL 1666 for riser applications; meets NFPA 262 and UL 910 for plenum use
- RoHS compliant and free of heavy metals
- Available with OFS AllWave® *FLEX*+ Zero Water Peak (ZWP) Single-Mode Fiber, AllWave® *FLEX* MAX ZWP Bend-Optimized Single-Mode Fiber, LaserWave® *FLEX* Multimode Fibers and other multimode fibers

AccuFlex+ Cable Cross-Section



Product Description

The OFS AccuFlex®+ Round Ribbon Cable offers excellent transmission performance, flexibility and connectivity, all in a highly compact package. Available in dual-rated, low-smoke zero halogen (LSZH) and plenum versions, this cable offers increased durability and ease of deployment for a variety of installation environments, including high-bandwidth data center/central office applications and CATV head-ends.

To construct the AccuFlex+ Cable, optical ribbon units are placed in a flame-retardant, central core tube. Each unit features 12 color-coded fibers arranged in a flat ribbon matrix. The solid buffer core is surrounded with a layer of aramid yarn for added protection and strength. Next, two dielectric strength rods are applied linearly over the aramid yarn to provide even greater durability and crush resistance. Finally, the cable construction is completed by the application of a proprietary, flame-retardant jacket.

Why the AccuFlex+ Cable?

The AccuFlex+ Cable is specifically designed for customers who need a round ribbon cable that is smaller, more flexible and easier to install than standard round indoor ribbon cable designs. This cable incorporates aramid yarn and two dielectric strength rods to provide excellent strength and compression resistance.

The AccuFlex+ Cable also offers increased environmental safety for premises use. The dual-rated, LSZH cables use a RoHS-compliant low-smoke, PVC outer jacket, and meet stringent UL 1666 requirements for flame spread and comply with all applicable IEC requirements for non-halogen cables. The plenum-rated cables are listed as meeting the flame spread and smoke emission requirements of the NFPA 262 plenum fire test. All cables use advanced materials that allow them to meet fire test requirements in a very compact package.

The cable's outstanding micro-bend performance makes it especially suitable for applications requiring 50 µm multimode fiber such as OFS LaserWave® Fibers. It is also ideal for use in high-bandwidth data center/central office applications, especially where MPO/MPX multifiber connectors are used.

Specifications					
	Dual-Rated LSZH			Plenum	
Fiber Count	**12-72**	**84-96**	**108-144**	**12-72**	**84-96**
Cable Outer Diameter - mm (in.)	9.6 (0.38)	10.2 (0.40)	12.2 (0.48)	9.6 (0.38)	10.2 (0.40)
Cable Weight - lb/kft (kgm/km)	45 (67)	49 (72)	82 (122)	56 (84)	60 (90)
CPR Rating	Dca-s1, d0, a1	Dca-s1, d0, a1	Dca-s1, d0, a1	-	-
DoP Lookup: www.ofs-sales.com/cpr/		**ARRC-D**			
Temperature Range					
Installation	-40 ºC to 60 ºC (-40 ºF to 140 ºF)			0 ºC to 70 ºC (32 ºF to 158 ºF)	
Operation	-20 ºC to 70 ºC (-4 ºF to 158 ºF)			-20 ºC to 60 ºC (-4 ºF to 140 ºF)	
Storage	-40 ºC to 70 ºC (-40 ºF to 158 ºF)			-40 ºC to 70 ºC (-40 ºF to 158 ºF)	
Performance Standard					
Tested per Applicable Requirements of Telcordia GR-409, ICEA S83-596, NEC 770 and 713, ANSI FDDI, IEEE 802(s), ISO/IEC 11801, TIA 568 and 598, UL 1666 and 910, NFPA 262 and ANSI-X3(S)					
Handling					
Maximum Tensile Rating	1335 N (300 lb)				
Minimum Bend Radius	With Load: 20 X OD* (All fibers) No Load: 8 X OD (AllWave *FLEX*+ ZWP Optical Fiber) 10 X OD (All other fibers)				
NOTE*: OD = Cable Outer Diameter					

Ordering Information

Example: ARRC-072A-WDY[1]

Part Number: **ARRC** - *NNN C* - *W X Y* - *Z*[1]

ARRC	AccuFlex®+ Round Ribbon
NNN	Number of Fibers (increments of 12)
C	Cable Version A = Dual-Rated LSZH (12-144 fibers) F = Plenum (12-96 fibers)
W	Fiber Type
X	Jacket Type: D = Dual-Rated LSZH P = Plenum
Y	Jacket Color: Y = Yellow (Single-Mode Optical Fiber) A = Aqua (LaserWave Optical Fiber)
Z	Maximum Cable Attenuation *(see chart)*

[1] Part Number shown is for an AccuFlex+ Dual-Rated LSZH Cable with 72 AllWave *FLEX*+ ZWP Fibers and standard cable: OFS ACCUFLEX®+ BIF G.657.A2 OPTICAL CABLE - C - ARRC-072A-WDY-4 9/125 LSZH CPR (UL) OFNR-LS C (UL) OFNG-ST1 {MM/YY} {LOT NO} {LENGTH IN FEET}

[2] Contact OFS for availability of alternative jacket colors.

Maximum Cable Attenuation*			
Single-Mode (dB/km)	**1310 nm**	**1550 nm**	**MCA (Z)**
AllWave® *FLEX*+ Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave *FLEX* Max ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
Multimode (dB/km)	**850 nm**	**1300 nm**	**MCA (Z)**
LaserWave *FLEX* G+ Multimode Optical Fiber	3.5	1.5	G
LaserWave *FLEX* 300 and 550 Multimode Optical Fibers	3.5	1.5	G

NOTE*: Installed attenuation values shall be at or below those listed above.

Fiber Type[2]	
Code	**Description**
9	AllWave *FLEX* Max Bend-Optimized Single-Mode Optical Fiber (G.657.B3 and G.652.D)
W	AllWave *FLEX*+ ZWP Bend-Optimized Single-Mode Optical Fiber (G.657.A2)
K	LaserWave® *FLEX* G+ Multimode Optical Fiber (OM2)
3	LaserWave *FLEX* 300 Multimode Optical Fiber (OM3)
5	LaserWave *FLEX* 550 Multimode Optical Fiber (OM4)

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

OFS Marketing Communications
Doc ID: fap-247 Date: 10/17