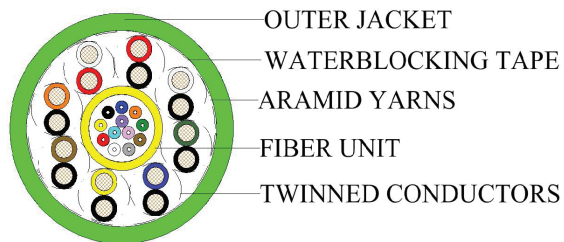




HybriLite® Plenum 12F-SM & 8x16awg or 8x18awg Pairs

Cablcon's HybriLite® products provide the optimum solution for remote powering of distribution antenna systems along with optical interface. The 12F & 8x16awg or 8x18awg is specifically designed for Digital Electricity™ technology with a maximum capacitance between pairs of 30pF/ft. @ 1kHz and +/-190VDC installations in accordance with NEC Article 830.15.



FIBER SPECIFICATIONS

	Fiber Type	Buffer Material	Buffer Diameter	Fiber Count	Fiber Color Coding
16awg	OS2 Low Water Peak Single Mode - G.657.A2/B2	PVC	900µm	12	Per TIA/EIA 598
18awg	OS2 Low Water Peak Single Mode - G.657.A2/B2	PVC	900µm	12	Per TIA/EIA 598

FIBER CONSTRUCTION

	Subunit Strength Members	Jacket Material	Jacket Diameter	Jacket Color
16awg	Aramid Yarns	PVC	0.230" (5.8 mm)	Yellow
18awg	Aramid Yarns	PVC	0.230" (5.8 mm)	Yellow

CONDUCTOR SPECIFICATIONS

	AWG	Number of Strands	Conductor Type	Number of Conductors	Insulation Material	Insulation Diameter	Max Capacitance Between Pairs	Insulation Color Code (Pairs)
16awg	16	19	Tinned Copper	16 conductors, 8 twisted pairs	Plenum PVC	0.087" (2.2 mm)	30pF/ft @ 1kHz	See below*
18awg	18	17	Tinned Copper	16 conductors, 8 twisted pairs	Plenum PVC	0.072" (1.8 mm)	30pF/ft @ 1kHz	See below*

*Insulation color code pairs: black/red-white-green-blue-yellow-brown-orange-white

OUTER JACKET SPECIFICATIONS

	Strength Members	Material	Nominal Diameter	Color
16awg	Aramid Yarn	Plenum PVC	0.697" (17.7 mm)	Gray
18awg	Aramid Yarn	Plenum PVC	0.612" (15.5 mm)	Gray

OPTICAL CHARACTERISTICS

	Wavelength		Max Attenuation	
16awg	1310 nm	1550 nm	0.5 dB/km	0.5 dB/km
18awg	1310 nm	1550 nm	0.5 dB/km	0.5 dB/km



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FIBER MECHANICAL CHARACTERISTICS

	Min Bend Radius During Installation	Min Bend Radius During Operation	Max Tensile Strength During Installation	Max Tensile Strength During Operation	Crush Resistance
16awg	15 x cable OD	10 x cable OD	600 lbf (2670 N)	180 lbf (800 N)	220 N/cm
18awg	15 x cable OD	10 x cable OD	600 lbf (2670 N)	180 lbf (800 N)	220 N/cm

FIBER TEMPERATURE RANGE

	Operating	Installation	Storage
16awg	0°C to +70°C	0°C to +60°C	-40°C to +70°C
18awg	0°C to +70°C	0°C to +60°C	-40°C to +70°C

STANDARDS

	Ratings	Standards	Compliance
16awg	CMP-OF	ICEA S-120-742	RoHS
18awg	CMP-OF	ICEA S-120-742	RoHS