

QUALITY WIRELINE & CABLE CATALOG



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Cable Specifications

GREASELESS ENVIRO-LITE E-LINE® CABLES

Cable Size	SIZE (in)	DIA (in)	NOMINAL B.S. lbs	WEIGHT (lbs/kft)	WEIGHT IN WATER (lbs/kft)	ARMOR WIRES IN/OUT	WIRES (min) B.S. lbs IN/OUT	STRETCH COEFFICIENT ft/Kft/Klbs	CDR RESIS Ω/Kft	CAP pF/ft	MAX TEMP °F	MIN SHEAVE DIA (in)	MAX VOLT
1-FT-295-12/12-HS-19-ETFJ	-	0.295	6500	117	86	12/12	314/233	2.10	4.0	57	375	24	1200
1-FT-327-11/18-HS-19-ETFJ	-	0.327	8500	150	113	11/18	536/168	1.70	2.8	57	375	26	1500
1-T-LC-327-11/18-HS-19-ETFJ	-	0.327	8500	147	110	11/18	536/168	1.70	4.4	52	375	26	1500
1-FT-339-11/15-HS-19-ETFJ	-	0.339	9500	160	120	11/15	536/233	1.50	2.8	57	375	26	1500
1-T-LC-339-11/15-HS-19-ETFJ	-	0.339	9500	156	115	11/15	536/233	1.60	4.4	52	375	26	1500
1-FT-350-11/14-HS-19-ETFJ	-	0.350	10000	170	127	11/14	536/292	1.50	2.8	57	375	26	1500
1-T-LC-350-11/14-HS-19-ETFJ	-	0.350	10000	163	121	11/14	536/292	1.50	4.4	52	375	26	1500

CONVENTIONAL WIRELINE CABLES

Cable Size	SIZE (in)	DIA (in)	NOMINAL B.S. lbs	WEIGHT (lbs/kft)	WEIGHT IN WATER (lbs/kft)	ARMOR WIRES IN/OUT	WIRES (min) B.S. lbs IN/OUT	STRETCH COEFFICIENT ft/Kft/Klbs	CDR RESIS Ω/Kft	CAP pF/ft	MAX TEMP °F	MIN SHEAVE DIA (in)	MAX VOLT
1-P-380-12/18-G-19	3/8	0.380	15000	259	218	12/18	585/585	1.00	2.8	39	300	21	1500
1-FT-380-12/18-G-19	3/8	0.380	15000	269	227	12/18	585/585	1.00	2.8	39	500	21	1500
1-P-322-12/18-G-19	5/16	0.322	11300	188	158	12/18	420/420	1.20	2.8	46	300	18	1500
1-FT-322-12/18-G-19	5/16	0.322	11300	193	163	12/18	420/420	1.20	2.8	48	500	18	1500
1-A-322-12/18-G-19	5/16	0.322	11300	196	166	12/18	420/420	1.20	2.8	45	550	18	1500
1-Q-322-12/18-G-19	5/16	0.322	11300	196	166	12/18	420/420	1.20	2.8	45	600	18	1500
1-FT-322-12/18-75-19	5/16	0.322	10400	197	168	12/18	387/387	1.20	3.3	48	500	18	1500
1-FT-322-12/18-77-19	5/16	0.322	10400	197	168	12/18	387/387	1.20	3.3	48	500	18	1500
1-FT-322-12/18-35N-19	5/16	0.322	11000	206	176	12/18	400/400	1.20	3.3	48	500	18	1500
1-P-288-12/18-G-19	9/32	0.288	10000	154	130	12/18	370/370	1.60	2.8	57	300	16	1500
1-T-LC-288-12/18-G-19	9/32	0.288	10000	153	130	12/18	370/370	1.60	4.0	50	500	16	1500
1-FT-288-12/18-G-19	9/32	0.288	10000	157	134	12/18	370/370	1.60	2.8	55	500	16	1500
1-A-288-12/18-G-19	9/32	0.288	10000	159	135	12/18	370/370	1.60	2.8	54	550	16	1500
1-Q-288-12/18-G-19	9/32	0.288	10000	159	135	12/18	370/370	1.60	2.8	54	600	16	1500
1-FT-288-12/18-75-19	9/32	0.288	8200	158	135	12/18	308/308	1.90	4.0	49	500	16	1500
1-FT-288-12/18-77-19	9/32	0.288	8200	157	134	12/18	308/308	1.90	4.0	49	500	16	1500
1-FT-288-12/18-35N-19	9/32	0.288	9200	167	144	12/18	335/335	1.90	4.0	49	500	16	1500
1-P-258-12/18-G-19	1/4	0.258	7000	122	104	12/18	282/282	1.90	4.0	50	300	14	1200
1-FT-258-12/18-G-19	1/4	0.258	7000	126	103	12/18	282/282	1.90	4.0	51	500	14	1200
1-A-258-12/18-G-19	1/4	0.258	7000	126	104	12/18	282/282	1.90	4.0	48	550	14	1200
1-Q-258-12/18-G-19	1/4	0.258	7000	126	104	12/18	282/282	1.90	4.0	48	600	14	1200
1-FT-258-12/18-75-19	1/4	0.258	6000	127	108	12/18	247/247	2.30	4.4	51	500	14	1200
1-FT-258-12/18-77-19	1/4	0.258	6500	127	107	12/18	272/272	2.30	4.4	51	500	14	1200
1-FT-258-12/18-35N-19	1/4	0.258	6500	135	115	12/18	272/272	2.00	4.4	51	500	14	1200
1-P-224-12/18-G-19	7/32	0.224	5600	94	79	12/18	204/204	2.50	4.0	59	300	14	1200
1-FT-224-12/18-G-19	7/32	0.224	5600	97	82	12/18	204/204	2.50	4.0	61	500	14	1200
1-A-224-12/18-G-19	7/32	0.224	5600	99	84	12/18	204/204	2.50	4.0	58	550	14	1200
1-Q-224-12/18-G-19	7/32	0.224	5600	99	84	12/18	204/204	2.50	4.0	58	600	14	1200
1-FT-224-12/18-75-7	7/32	0.224	4800	96	81	12/18	186/186	2.90	6.7	45	500	14	1200
1-FT-224-12/18-77-7	7/32	0.224	5200	96	81	12/18	196/196	3.10	6.7	45	500	14	1200
1-FT-224-12/18-35N-7	7/32	0.224	5200	103	89	12/18	204/204	2.90	6.7	45	500	14	1200
1-P-224-15/15-G-19	7/32	0.224	5600	94	79	15/15	129/282	2.20	4.0	60	300	14	1200
1-FT-224-15/15-G-19	7/33	0.224	5600	97	82	15/15	129/282	2.20	4.0	58	500	14	1200
1-A-224-15/15-G-19	7/32	0.224	5600	99	84	15/15	129/282	2.20	4.0	58	550	14	1200
1-Q-224-15/15-G-19	7/32	0.224	5600	99	84	15/15	129/282	2.20	4.0	58	600	14	1200
1-FT-224-15/15-75-7	7/32	0.224	4800	93.0	80	15/15	115/247	2.70	6.7	44	500	14	1200
1-FT-224-15/15-77-7	7/32	0.224	5200	93.0	79	15/15	125/272	3.00	6.7	44	500	14	1200
1-FT-224-15/15-35N-7	7/32	0.224	5200	99.0	85	15/15	125/272	2.40	6.7	44	500	14	1200

DYPAK WIRELINE CABLES

Cable Size	SIZE (in)	DIA (in)	NOMINAL B.S. lbs	WEIGHT (lbs/kft)	WIRES (min) B.S. lbs IN/OUT	STRETCH COEFFICIENT ft/Kft/Klbs	MIN SHEAVE DIA (in)
3/16 - INCH	3/16	0.185	3900	66	--	4.00	12
7/32 - INCH	7/32	0.185	3900	66	--	4.00	14
1/4 - INCH	1/4	0.250	11000	158	--	0.87	16

About Us

FET manufactures high-performance wireline cables for the oil and gas industry, specializing in cased-hole cables for all environments.

As a leading wireline cable OEM, our team is committed to providing our customers with quality cable solutions. Our team offers a range of cable options and utilizes the latest manufacturing and quality control equipment in the industry.

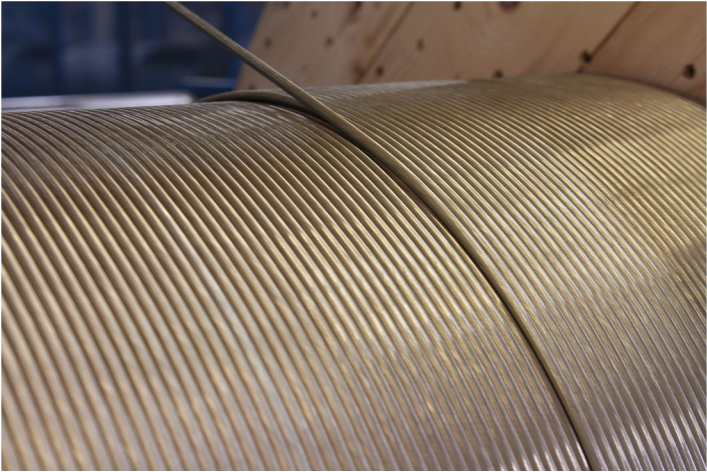
Our innovative team of experts, dedicated to producing the perfect cable, developed a unique extrusion process that enhances cable performance. Engineered to exceed industry standards, our wireline cables can withstand the significant pressure and extreme temperatures of well conditions.

The Quality Difference at FET

Our quality control program is a five-star system with over 1,500 quality control checks during the manufacturing of each cable. This unparalleled effort results in cables that are approaching perfection in every way.

Our five-star quality system includes the following:

- A detailed quality control inspection was performed on all finished cables, ensuring electrical and mechanical integrity.
- Every cable is supplied with a complete and detailed final inspection report and quality control document, which are archived along with a physical sample of the cable in the event they are required in the future.
- To ensure consistency, we measure the cable's diameter and ovality using laser technology at multiple points during manufacturing. Digital history is logged and recorded detailing the diameter, ovality, and concentricity of the extruded core and the diameter and ovality of the inner and outer armor. This level of quality control leaves little to no error.
- Each finished cable, once tested, is covered with a flexible wrap to protect it during shipping.
- We register our Quality Management System to ISO-9001:2015.



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Cable Designation Information

1	P	322	12/18	G	19
A	B	C	D	E	F

A Number of Conductors

C Cable Diameter (in thousands of an inch)

E Type of Armor Material

B Type of Electrical Insulation

D Armor Type (Inner Wires/Outer Wires)

G (GIPS) 35N (MP 35N)
75 (Alloy 75) HS (High Strength)
77 (Alloy 77)

A (PFA) T (ETFE)
FT (FEP/ETFE) Q (Q600)
P (Polypropylene) X (Others)

12/18 15/15
11/12 12/15

F Type of Copper Construction
7 Wires 19 Wires

Design & Manufacturing Details

Manufactured and Tested to Meet Industry Standards

THE QUALITY ADVANTAGE

- Unique to Quality Wireline is our custom-designed “infinite lay” armoring process, which allows us to optimize armor coverage and ensure the highest-quality cable.
- Our leading-edge high-speed Rewinder, coupled with our rigorous quality control on wire supply, eliminates the vast majority of potential quality problems related to wire.

GENERAL

- The cable’s temperature rating is based on a ‘normal tension and temperature profile.’ This profile refers to situations in which cable tension and temperature increase with depth, with maximum temperature at the bottom of the borehole.
- All cable diameters and wire diameters shown in the catalog are nominal.

ELECTRICAL

- All electrical conductors are water-blocked using a process that precisely controls the amount of blocking material applied to the conductor. This process effectively minimizes the effects of fluid or gas migration through the conductor.
- All extruded conductors maintain 95% - 100% concentricity.
- State-of-the-art non-contact measuring systems for diameter, ovality, and concentricity provide real-time quality control data, enabling a fully closed-loop control system to ensure optimum conductor quality. Electronic records are archived with the quality control documents.
- Repair to the electrical conductor insulation is prohibited if the copper conductor is exposed.
- Electrical conductor resistance and insulation are corrected to 20°C / 68°F.
- The electrical resistance and capacitance values in this catalog are nominal.

CABLE & BREAKING STRENGTH

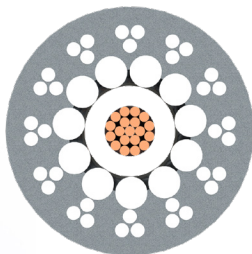
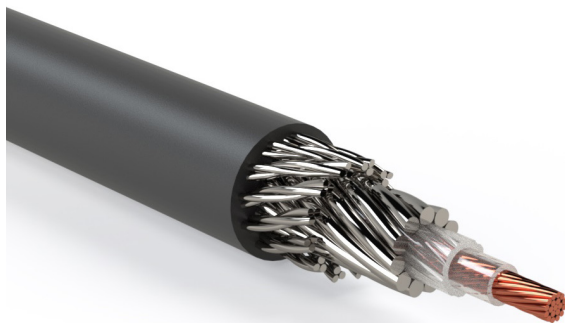
- There is a direct relationship between the wire’s tensile strength and the cable’s breaking strength.
- Breaking strength values are specified on individual cable specification sheets.
- The cable breaking strength is tested and guaranteed under specific conditions, with no cable end rotation allowed.
- The cable breaking strength is a calculated value with ends fixed.
- The cable working load on standard cables has been extended to 60% of the rated cable breaking strength.

ARMOR

- Depending on the application and well conditions, you can select from several armor types. Our standard cables are armored with galvanized improved plow steel (GIPS) wire, and our high-strength cables are armored with extra galvanized improved plow steel (XGIPS). Our cables for corrosive environments are armored with corrosive-resistant nickel alloy materials, including S75, S77, and MP-35N.
- TCI (Torque Compression Inhibitor) is applied between armor layers to minimize fluid migration and friction between the layers during the cable’s initial runs until seasoning occurs.
- A protective grease coats the cable armor to maintain armor surface quality during shipping, handling, and storage.
- All armor wires are pre-formed during the manufacturing process. The average pre-form value is 77% (+/-2.5%).
- Butt welds are NOT allowed in the outer armoring process.

NOTE: All specifications are subject to change without prior notice.

1-FT-295-12/12-HS-19-ETFJ



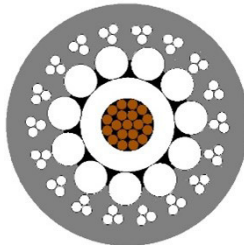
- 0.295" (7.49 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.50 mm
Wall Thickness:	0.028"	0.71 mm
Insulation – OD:	0.115"	2.92 mm
Aarmor – Inner : 12 ea 0.0348" wires:	0.178"	4.52 mm
Aarmor – Outer : 12 ea 3 x 0.0180" wires:	0.250"	6.35 mm
Jacket - OD:	0.295"	7.49 mm

Mechanical Characteristics	English	Metric
Weight in Air:	117 lbs/kft	174 kg/km
Weight in Water:	86 lbs/kft	128 kg/km
Nominal Breaking Strength (Ends Fixed):	6,500 lbs	2,948 kg
Working Load (Maximum):	3,500 lbs	1,587 kg
Temperature Rating (Maimum):	375°F	190°C
Temperature Rating (8 hours):	350°F	177°C
Suggested Minimum Sheave:	24" dia.	610 mm
Outside Diameter:	0.295 $\frac{+.004"}{-0.003"}$	7.49 $\frac{+0.102\text{ mm}}{-0.076\text{ mm}}$
Stretch Coefficient:	2.1 ft/kft/klbf	2.4 m/km/5kN
Inner Wire Breaking Strength:	314 lbs	142 kg
Outer Wire Breaking Strength:	233 lbs	105 kg

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.8 Ω/kft	15.7 Ω/km
Capacitance Conductor to Armor:	57 pF/ft	186 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-327-11/18-HS-19-ETFJ



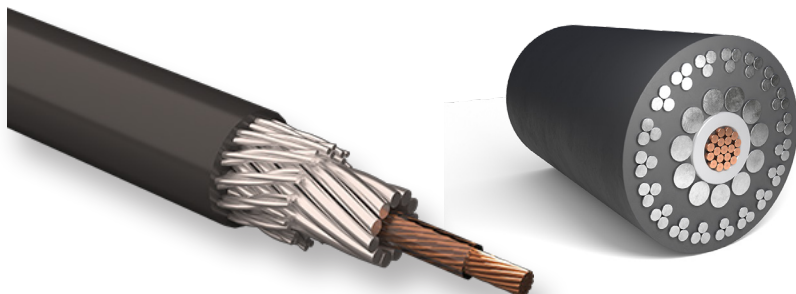
- 0.327" (8.31 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.80 mm
Wall Thickness:	0.033"	0.83 mm
Insulation – OD:	0.136"	3.45 mm
Aarmor – Inner : 11 ea. 0.0455" wires:	0.219"	5.56 mm
Aarmor – Outer : 18 ea. @ 3 x 0.015" strands:	0.279"	7.09 mm
Jacket – OD:	0.327"	8.31 mm

Mechanical Characteristics	English	Metric
Weight in Air:	150 lb/kft	223 kg/km
Weight in Water:	113 lb/kft	168 kg/km
Nominal Breaking Strength (Ends Fixed):	8,500 lb	37.8 kN
Safe Working Load (Maximum):	4,250 lb	18.9 kN
Temperature Rating:	375°F	190°C
Temperature Rating (8 hours):	350°F	175°C
Suggested Minimum Sheave:	26" dia.	660 mm
Outside Diameter:	0.327 $\frac{+.004"}{-0.003"}$	8.31 $\frac{+0.102\text{ mm}}{-0.076\text{ mm}}$
Stretch Coefficient:	1.7 ft/kft/klbf	1.9 m/km/5kN
Inner Wire Breaking Strength:	536 lb (min)	205.5 kg (min)
Outer Wire Breaking Strength:	168 lb (min)	76.2 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	3.7 Ω/kft	12.1 Ω/km
Capacitance Conductor to Armor:	57 pF/ft	186 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-T-LC-327-11/18-HS-19-ETFJ



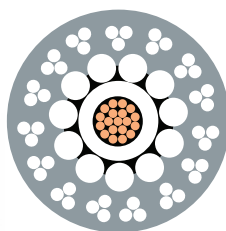
- 0.327" (8.31 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0385"	0.978 mm
Insulation – OD:	0.136"	3.45 mm
Aarmor – Inner : 11 ea. 0.0455" wires:	0.219"	5.56 mm
Aarmor – Outer : 18 ea. @ 3 x 0.015" strands:	0.279"	7.09 mm
Jacket – OD:	0.327"	8.31 mm

Mechanical Characteristics	English	Metric
Weight in Air:	147 lb/kft	219 kg/km
Weight in Water:	110 lb/kft	164 kg/km
Breaking Strength (Ends Fixed):	8,500 lb	37.8 kN
Safe Working Load (Maximum):	4,250 lb	18.9 kN
Temperature Rating:	375°F	190°C
Temperature Rating (8 hours):	350°F	175°C
Suggested Minimum Sheave:	26" dia.	660 mm
Outside Diameter:	0.327 $\frac{+.004"}{-0.003"}$	8.31 $\frac{+0.102\text{ mm}}{-0.076\text{ mm}}$
Stretch Coefficient:	1.7 ft/kft/klbf	1.9 m/km/5kN
Inner Wire Breaking Strength:	536 lb (min)	205.5 kg (min)
Outer Wire Breaking Strength:	173 lb (min)	78.5 kg (min)

Electrical Characteristics (Nominal)	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
DC Armor Resistance at 68°F (20°C):	3.7 Ω/kft	12.1 Ω/km
Capacitance Conductor to Armor:	52 pF/ft	171 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-339-11/15-HS-19-ETFJ



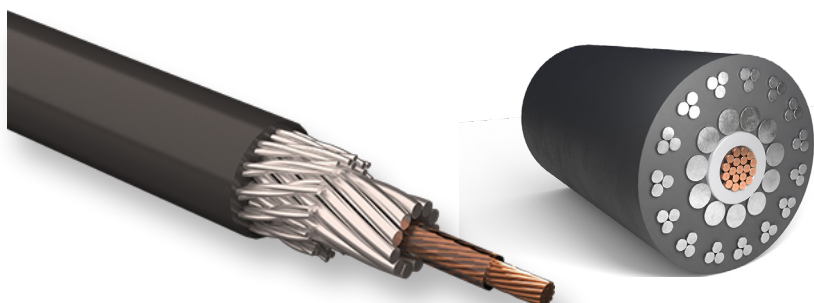
- 0.339" (8.61 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.80 mm
Wall Thickness:	0.033"	0.83 mm
Insulation – OD:	0.136"	3.45 mm
Aarmor – Inner : 11 ea 0.0455" wires:	0.219"	5.56 mm
Aarmor – Outer : 15 ea @ 3 x 0.0180" strands:	0.292"	7.41 mm
Jacket – OD:	0.339"	8.61 mm

Mechanical Characteristics	English	Metric
Weight in Air:	160 lbs/kft	239 kg/km
Weight in Water:	120 lbs/kft	179 kg/km
Nominal Breaking Strength (Ends Fixed):	9,500 lbs	4,309 kg
Working Load (Maximum):	4,750 lbs	2,154 kg
Temperature Rating (Maximum):	375°F	190°C
Temperature Rating (8 hours):	350°F	177°C
Suggested Minimum Sheave:	26" dia.	660 mm
Outside Diameter:	0.339 $\frac{+.004"}{-0.003"}$	8.61 $\frac{+0.102\text{ mm}}{-0.076\text{ mm}}$
Stretch Coefficient:	1.5 ft/kft/klbf	1.7 m/km/5kN
Inner Wire Breaking Strength:	536 lbs (min)	243 kg (min)
Outer Wire Breaking Strength:	233 lbs (min)	105 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.5 Ω/km
DC Armor Resistance at 68°F (20°C):	3.7 Ω/kft	12.14 Ω/km
Capacitance Conductor to Armor:	57 pF/ft	186 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-T-LC-339-11/15-HS-19-ETFJ



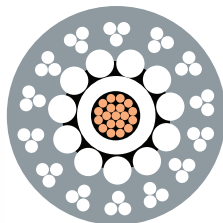
- 0.339" (8.61 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0385"	0.978 mm
Insulation – OD:	0.136"	3.45 mm
Aarmor – Inner : 11 ea 0.0455" wires:	0.219"	5.56 mm
Aarmor – Outer : 15 ea @ 3 x 0.0180" strands:	0.292"	7.41 mm
Jacket – OD:	0.339"	8.61 mm

Mechanical Characteristics	English	Metric
Weight in Air:	156 lbs/kft	232 kg/km
Weight in Water:	115 lbs/kft	172 kg/km
Breaking Strength (Ends Fixed):	9,500 lbs	4,309 kg
Working Load (Maximum):	4,750 lbs	2,155 kg
Temperature Rating (Maximum):	375°F	190°C
Temperature Rating (8 hours):	350°F	175°C
Suggested Minimum Sheave:	26" dia.	660 mm
Outside Diameter:	0.339 $\frac{+ .004"}{-0.003"}$	8.61 $\frac{+ 0.102 \text{ mm}}{-0.076 \text{ mm}}$
Stretch Coefficient:	1.6 ft/kft/klbf	1.8 m/km/5kN

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
DC Armor Resistance at 68°F (20°C):	3.4 Ω/kft	11.2 Ω/km
Capacitance Conductor to Armor:	52 pF/ft	171 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-350-11/14-HS-19-ETFJ



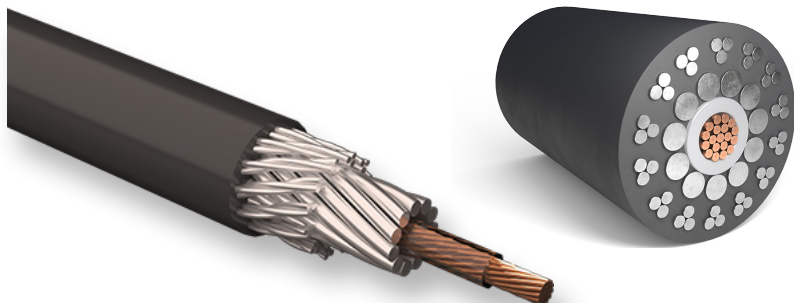
- 0.350" (8.89 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.80 mm
Wall Thickness:	0.033"	0.83 mm
Insulation – OD:	0.136"	3.45 mm
Aarmor – Inner : 11 ea 0.0455" wires:	0.219"	5.56 mm
Aarmor – Outer : 14 ea @ 3 x 0.0200" strands:	0.301"	7.67 mm
Jacket – OD:	0.350"	8.89 mm

Mechanical Characteristics	English	Metric
Weight in Air:	170 lbs/kft	253 kg/km
Weight in Water:	127 lbs/kft	190 kg/km
Nominal Breaking Strength (Ends Fixed):	10,000 lbs	4,535 kg
Working Load (Maximum):	5,000 lbs	2,270 kg
Temperature Rating (Maximum):	375°F	190°C
Temperature Rating (8 hours):	350°F	177°C
Suggested Minimum Sheave:	26" dia.	660 mm
Outside Diameter:	0.350 $\frac{+.004"}{-0.003"}$	8.89 $\frac{+0.102\text{ mm}}{-0.076\text{ mm}}$
Stretch Coefficient:	1.5 ft/kft/klbf	1.7 m/km/5kN
Inner Wire Breaking Strength:	536 lbs (min)	243 kg (min)
Outer Wire Breaking Strength:	292 lbs (min)	132 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.5 Ω/km
DC Armor Resistance at 68°F (20°C):	3.7 Ω/kft	12.14 Ω/km
Capacitance Conductor to Armor:	57 pF/ft	186 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-T-LC-350-11/14-HS-19-ETFJ



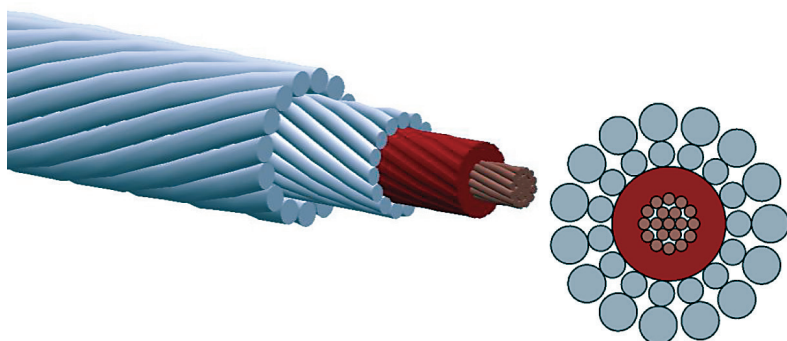
- 0.350" (8.89 mm) Enviro-Lite Cable
- Temperature Rating 375°F (190°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GEEIPS
- Jacket – ETFJ

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0385"	0.978 mm
Insulation – OD:	0.136"	3.45 mm
Aarmor – Inner : 11 ea 0.0455" wires:	0.219"	5.56 mm
Aarmor – Outer : 14 ea @ 3 x 0.0200" strands:	0.301"	7.65 mm
Jacket – OD:	0.350"	8.89 mm

Mechanical Characteristics	English	Metric
Weight in Air:	163 lbs/kft	243 kg/km
Weight in Water:	121 lbs/kft	180 kg/km
Nominal Breaking Strength (Ends Fixed):	10,000 lbs	4,536 kg
Working Load (Maximum):	5,000 lbs	2,268 kg
Temperature Rating (Maximum):	375°F	190°C
Temperature Rating (8 hours):	350°F	177°C
Suggested Minimum Sheave:	26" dia.	660 mm
Outside Diameter:	0.350 $\frac{+.004"}{-0.003"}$	8.89 $\frac{+0.102\text{ mm}}{-0.076\text{ mm}}$
Stretch Coefficient:	1.5 ft/kft/klbf	1.7 m/km/5kN

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
DC Armor Resistance at 68°F (20°C):	3.2 Ω/kft	10.5 Ω/km
Capacitance Conductor to Armor:	52 pF/ft	171 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-P-380-12/18-G-19



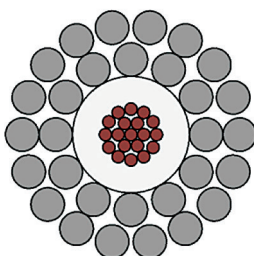
- 3/8" (9.65 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.056"	1.422 mm
Insulation – OD:	0.183"	4.648 mm
Armor – Inner : 12 Wires 0.0525":	0.275"	6.985 mm
Armor – Outer : 18 Wires 0.0525":	0.380"	9.652 mm

Mechanical Characteristics	English	Metric
Weight in Air:	259 lbs/kft	386 kg/km
Weight in Water:	218 lbs/kft	324 kg/km
Nominal Breaking Strength (Ends Fixed):	15,000 lbs	6,804 kg
Working Load (Maximum):	9,000 lbs	4,082 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	21" dia.	533 mm
Outside Diameter:	0.380 $\frac{+.006"}{-0.002"}$	9.65 $\frac{+0.152\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.0 ft/kft/klb	1.125 m/km/5kN
Inner Wire Breaking Strength:	585 lbs (min)	265 kg (min)
Outer Wire Breaking Strength:	585 lbs (min)	265 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	1.5 Ω/kft	4.92 Ω/km
Capacitance Conductor to Armor:	39 pF/ft	128 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-380-12/18-G-19



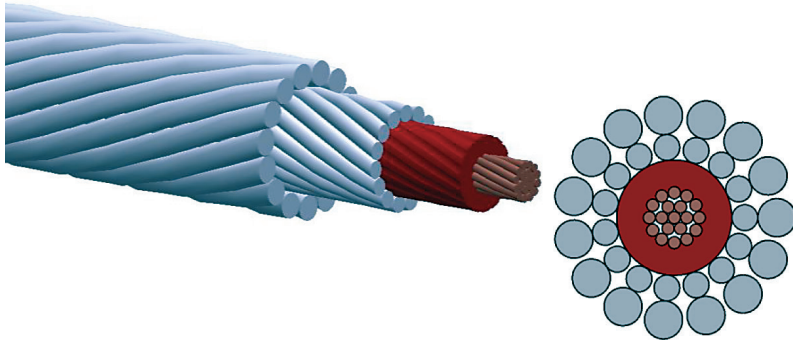
- 3/8" (9.65 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.056"	1.422 mm
Insulation – OD:	0.183"	4.648 mm
Aarmor – Inner : 12 Wires 0.0525":	0.275"	6.985 mm
Aarmor – Outer : 18 Wires 0.0525":	0.380"	9.652 mm

Mechanical Characteristics	English	Metric
Weight in Air:	269 lbs/kft	400 kg/km
Weight in Water:	227 lbs/kft	338 kg/km
Nominal Breaking Strength (Ends Fixed):	15,000 lbs	6,804 kg
Working Load (Maximum):	9,000 lbs	4,082 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	21" dia.	533 mm
Outside Diameter:	0.380 $\frac{+.006"}{-0.002"}$	9.65 $\frac{+0.152\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.0 ft/kft/klb	1.125 m/km/5kN
Inner Wire Breaking Strength:	585 lbs (min)	265 kg (min)
Outer Wire Breaking Strength:	585 lbs (min)	265 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	1.5 Ω/kft	4.92 Ω/km
Capacitance Conductor to Armor:	39 pF/ft	128 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-P-322-12/18-G-19



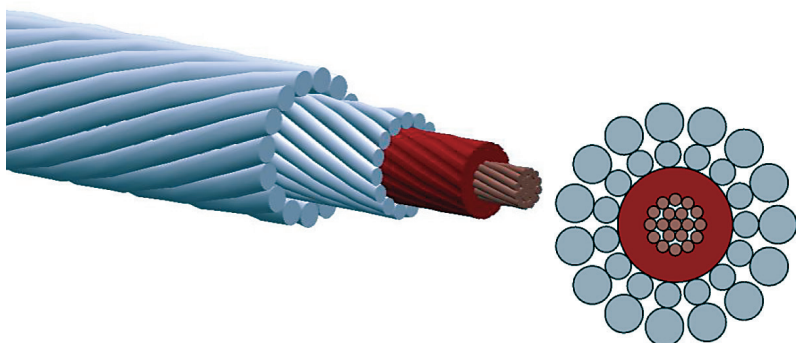
- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Armor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Armor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	188 lbs/kft	280 kg/km
Weight in Water:	158 lbs/kft	235 kg/km
Nominal Breaking Strength (Ends Fixed):	11,300 lbs	5,125 kg
Working Load (Maximum):	6,780 lbs	3,075 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.179 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	420 lbs (min)	191 kg (min)
Outer Wire Breaking Strength:	420 lbs (min)	191 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.1 Ω/kft	6.9 Ω/km
Capacitance Conductor to Armor:	46 pF/ft	151 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-322-12/18-G-19



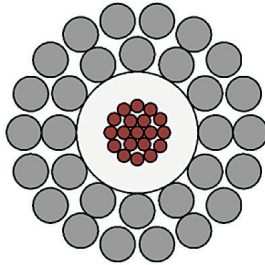
- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Aarmor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Aarmor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	188 lbs/kft	280 kg/km
Weight in Water:	158 lbs/kft	235 kg/km
Nominal Breaking Strength (Ends Fixed):	11,300 lbs	5,125 kg
Working Load (Maximum):	6,780 lbs	3,075 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.179 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	420 lbs (min)	191 kg (min)
Outer Wire Breaking Strength:	420 lbs (min)	191 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.1 Ω/kft	6.9 Ω/km
Capacitance Conductor to Armor:	46 pF/ft	151 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-A-322-12/18-G-19



Corrosion Resistant

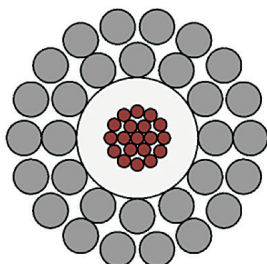
- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 550°F (288°C)
- Conductor – Copper
- Insulation – PFA
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Aarmor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Aarmor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	196 lbs/kft	292 kg/km
Weight in Water:	166 lbs/kft	247 kg/km
Nominal Breaking Strength (Ends Fixed):	11,300 lbs	5,125 kg
Working Load (Maximum):	6,780 lbs	3,075 kg
Temperature Rating (Maximum):	550°F	288°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.179 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	420 lbs (min)	191 kg (min)
Outer Wire Breaking Strength:	420 lbs (min)	191 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.1 Ω/kft	6.9 Ω/km
Capacitance Conductor to Armor:	45 pF/ft	148 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-Q-322-12/18-G-19



- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 600°F (315°C)
- Conductor – Copper
- Insulation – Q600
- Armor – GIPS

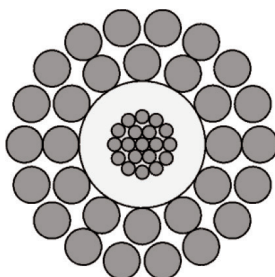
Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Aarmor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Aarmor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	196 lbs/kft	292 kg/km
Weight in Water:	166 lbs/kft	247 kg/km
Nominal Breaking Strength (Ends Fixed):	11,300 lbs	5,125 kg
Working Load (Maximum):	6,780 lbs	3,075 kg
Temperature Rating (Maximum):	600°F	315°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.179 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	420 lbs (min)	191 kg (min)
Outer Wire Breaking Strength:	420 lbs (min)	191 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Aarmor Resistance at 68°F (20°C):	2.1 Ω/kft	6.9 Ω/km
Capacitance Conductor to Aarmor:	45 pF/ft	148 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

Temperature Rating	Fahrenheit	Celsius
Short Term Max Temp [1 h]:	600°	315°
Intermediate Max Temp [8 h]:	550°	288°
Continuous Operating Temp:	510°	265°
Storage Temperature Range:	-400° to +510°	-240° to +265°

1-FT-322-12/18-75-19



Corrosion Resistant

- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 75

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Aarmor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Aarmor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	197 lbs/kft	293 kg/km
Weight in Water:	168 lbs/kft	250 kg/km
Nominal Breaking Strength (Ends Fixed):	10,400 lbs	4,717 kg
Working Load (Maximum):	5,200 lbs	2,360 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.18 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	387 lbs (min)	176 kg (min)
Outer Wire Breaking Strength:	387 lbs (min)	176 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	3.3 Ω/kft	10.8 Ω/km
DC Armor Resistance at 68°F (20°C):	9.0 Ω/kft	29.5 Ω/km
Capacitance Conductor to Armor:	48 pF/ft	159 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 325°F (163°C). The cable is not recommended for use above this temperature as permanent deformation may occur. Copyright ©2024

1-FT-322-12/18-77-19



Corrosion Resistant

- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 77

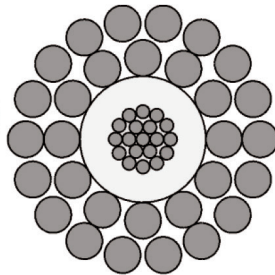
Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Aarmor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Aarmor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	197 lbs/kft	293 kg/km
Weight in Water:	168 lbs/kft	250 kg/km
Nominal Breaking Strength (Ends Fixed):	10,400 lbs	4,717 kg
Working Load (Maximum):	5,200 lbs	2,360 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.18 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	387 lbs (min)	176 kg (min)
Outer Wire Breaking Strength:	387 lbs (min)	176 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	3.3 Ω/kft	10.8 Ω/km
DC Aarmor Resistance at 68°F (20°C):	11.0 Ω/kft	36.0 Ω/km
Capacitance Conductor to Aarmor:	48 pF/ft	159 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 425°F (218°C). The cable is not recommended for use above this temperature as permanent deformation may occur. Copyright ©2024

1-FT-322-12/18-35N-19



Corrosion Resistant

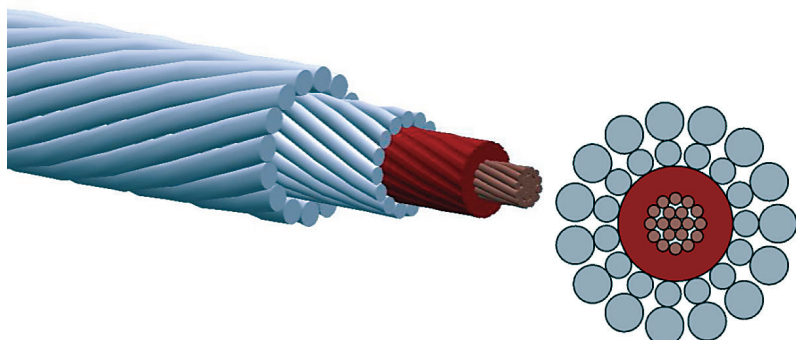
- 5/16" (8.18 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – MP35N

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.042"	1.067 mm
Insulation – OD:	0.155"	3.937 mm
Aarmor – Inner : 12 Wires 0.0445":	0.233"	5.918 mm
Aarmor – Outer : 18 Wires 0.0445":	0.322"	8.179 mm

Mechanical Characteristics	English	Metric
Weight in Air:	206 lbs/kft	307 kg/km
Weight in Water:	176 lbs/kft	262 kg/km
Nominal Breaking Strength (Ends Fixed):	11,000 lbs	4,990 kg
Working Load (Maximum):	5,500 lbs	2,495 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	18" dia.	457 mm
Outside Diameter:	0.322 $\frac{+.005"}{-0.002"}$	8.179 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.2 ft/kft/klb	1.35 m/km/5kN
Inner Wire Breaking Strength:	400 lbs (min)	181 kg (min)
Outer Wire Breaking Strength:	400 lbs (min)	181 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	3.3 Ω /kft	10.8 Ω /km
DC Armor Resistance at 68°F (20°C):	11 Ω /kft	36 Ω /km
Capacitance Conductor to Armor:	48 pF/ft	159 pF/m
Minimum Insulation Resistance:	1,500 M Ω *kft	457 M Ω *km

1-P-288-12/18-G-19



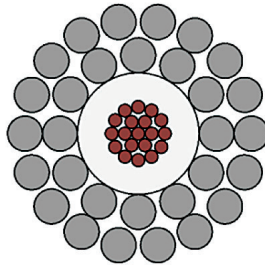
- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.0335"	0.838 mm
Insulation – OD:	0.137"	3.480 mm
Armor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Armor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	154 lbs/kft	229 kg/km
Weight in Water:	130 lbs/kft	194 kg/km
Nominal Breaking Strength (Ends Fixed):	10,000 lbs	4,535 kg
Working Load (Maximum):	6,000 lbs	2,721 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	1.6 ft/kft/klb	1.8 m/km/5kN
Inner Wire Breaking Strength:	370 lbs (min)	168 kg (min)
Outer Wire Breaking Strength:	370 lbs (min)	168 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
Capacitance Conductor to Armor:	57 pF/ft	187 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-T-LC 288-12/18-G-19



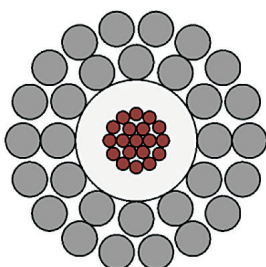
- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Copper
- Insulation – FEP/ ETFE
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0385"	0.978 mm
Insulation – OD:	0.137"	3.480 mm
Armor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Armor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	153 lbs/kft	229 kg/km
Weight in Water:	130 lbs/kft	194 kg/km
Nominal Breaking Strength (Ends Fixed):	10,000 lbs	4,535 kg
Working Load (Maximum):	6,000 lbs	2,721 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.6 ft/kft/klb	1.8 m/km/5kN
Inner Wire Breaking Strength:	370 lbs (min)	168 kg (min)
Outer Wire Breaking Strength:	370 lbs (min)	168 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω /kft	13.1 Ω /km
DC Armor Resistance at 68°F (20°C):	2.8 Ω /kft	9.2 Ω /km
Capacitance Conductor to Armor:	50 pF/ft	164 pF/m
Minimum Insulation Resistance:	1,500 M Ω *kft	457 M Ω *km

1-FT-288-12/18-G-19



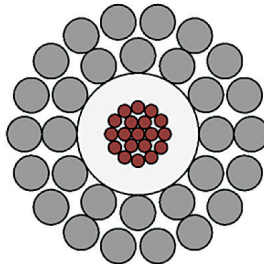
- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Copper
- Insulation – FEP/ ETFE
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.0335"	0.838 mm
Insulation – OD:	0.137"	3.480 mm
Aarmor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Aarmor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	157 lbs/kft	233 kg/km
Weight in Water:	134 lbs/kft	198 kg/km
Nominal Breaking Strength (Ends Fixed):	10,000 lbs	4,535 kg
Working Load (Maximum):	6,000 lbs	2,721 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.6 ft/kft/klb	1.8 m/km/5kN
Inner Wire Breaking Strength:	370 lbs (min)	168 kg (min)
Outer Wire Breaking Strength:	370 lbs (min)	168 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
Capacitance Conductor to Armor:	55 pF/ft	180 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-A-288-12/18-G-19



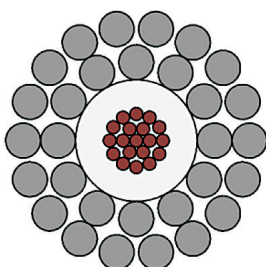
- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 550°F (288°C)
- Conductor – Copper
- Insulation – PFA
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.0335"	0.838 mm
Insulation – OD:	0.137"	3.480 mm
Aarmor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Aarmor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	159 lbs/kft	237 kg/km
Weight in Water:	135 lbs/kft	201 kg/km
Nominal Breaking Strength (Ends Fixed):	10,000 lbs	4,535 kg
Working Load (Maximum):	6,000 lbs	2,721 kg
Temperature Rating (Maximum):	550°F	288°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.6 ft/kft/klb	1.8 m/km/5kN
Inner Wire Breaking Strength:	370 lbs (min)	168 kg (min)
Outer Wire Breaking Strength:	370 lbs (min)	168 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
Capacitance Conductor to Armor:	54 pF/ft	177 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-Q-288-12/18-G-19



- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 600°F (315°C)
- Conductor – Copper
- Insulation – Q600
- Armor – GIPS

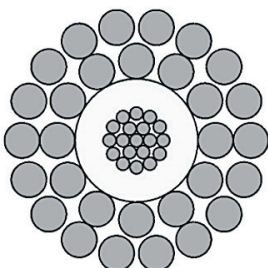
Construction Characteristics	English	Metric
Conductor – 15 AWG , 19 x 0.0142":	0.071"	1.803 mm
Wall Thickness:	0.0335"	0.838 mm
Insulation – OD:	0.137"	3.480 mm
Aarmor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Aarmor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	159 lbs/kft	237 kg/km
Weight in Water:	135 lbs/kft	201 kg/km
Breaking Strength (Ends Fixed):	10,000 lbs	4,535 kg
Working Load (Maximum):	6,000 lbs	2,721 kg
Temperature Rating (Maximum):	600°F	315°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.6 ft/kft/klb	1.8 m/km/5kN
Inner Wire Breaking Strength:	370 lbs (min)	168 kg (min)
Outer Wire Breaking Strength:	370 lbs (min)	168 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
DC Armor Resistance at 68°F (20°C):	2.8 Ω/kft	9.2 Ω/km
Capacitance Conductor to Armor:	54 pF/ft	177 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

Temperature Rating	Fahrenheit	Celsius
Short Term Max Temp [1 h]:	600°	315°
Intermediate Max Temp [8 h]:	550°	288°
Continuous Operating Temp:	510°	265°
Storage Temperature Range:	-400° to +510°	-240° to +265°

1-FT-288-12/18-75-19



Corrosion Resistant

- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 75

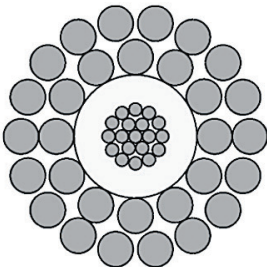
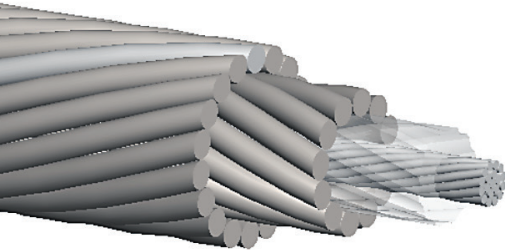
Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0128":	0.064"	1.63 mm
Wall Thickness:	0.0365"	0.93 mm
Insulation – OD:	0.137"	3.48 mm
Aarmor – Inner : 12 Wires 0.040":	0.208"	5.28 mm
Aarmor – Outer : 18 Wires 0.040":	0.288"	7.32 mm

Mechanical Characteristics	English	Metric
Weight in Air:	158 lbs/kft	237 kg/km
Weight in Water:	135 lbs/kft	203 kg/km
Nominal Breaking Strength (Ends Fixed):	8,200 lbs	3,727 kg
Working Load (Maximum):	4,100 lbs	1,860 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.13 \text{ mm}}{-0.05 \text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.13 m/km/5kN
Inner Wire Breaking Strength:	308 lbs (min)	140 kg (min)
Outer Wire Breaking Strength:	308 lbs (min)	140 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	10.0 Ω/kft	32.8 Ω/km
Capacitance Conductor to Armor:	49 pF/ft	161 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 325°F (163°C). The cable is not recommended for use above this temperature as permanent deformation may occur. Copyright ©2024

1-FT-288-12/18-77-19



Corrosion Resistant

- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 77

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0128":	0.064"	1.626 mm
Wall Thickness:	0.0365"	0.927 mm
Insulation – OD:	0.137"	3.480 mm
Aarmor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Aarmor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

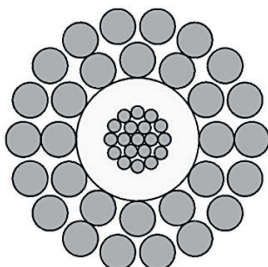
Mechanical Characteristics	English	Metric
Weight in Air:	157 lbs/kft	237 kg/km
Weight in Water:	134 lbs/kft	203 kg/km
Nominal Breaking Strength (Ends Fixed):	8,200 lbs	3,727 kg
Working Load (Maximum):	4,100 lbs	1,860 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.13 m/km/5kN
Inner Wire Breaking Strength:	308 lbs (min)	140 kg (min)
Outer Wire Breaking Strength:	308 lbs (min)	140 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	10.0 Ω/kft	32.8 Ω/km
Capacitance Conductor to Armor:	49 pF/ft	161 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 425°F (218°C). The cable is not recommended for use above this temperature as permanent deformation may occur. Copyright ©2024

Conventional

1-FT-288-12/18-35N-19



Corrosion Resistant

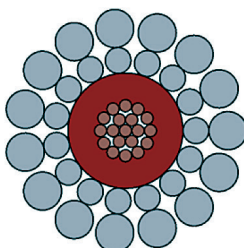
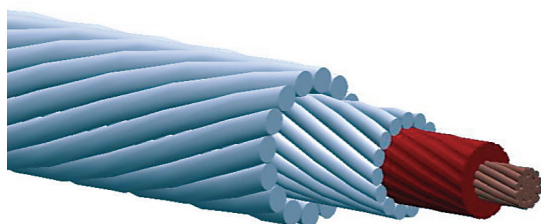
- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – MP35N

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0128":	0.064"	1.626 mm
Wall Thickness:	0.0365"	0.927 mm
Insulation – OD:	0.137"	3.480 mm
Aarmor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Aarmor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	167 lbs/kft	249 kg/km
Weight in Water:	144 lbs/kft	215 kg/km
Nominal Breaking Strength (Ends Fixed):	9,200 lbs	4,182 kg
Working Load (Maximum):	4,600 lbs	2,091 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.13 m/km/5kN
Inner Wire Breaking Strength:	335 lbs (min)	152 kg (min)
Outer Wire Breaking Strength:	335 lbs (min)	152 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	10.0 Ω/kft	32.8 Ω/km
Capacitance Conductor to Armor:	49 pF/ft	161 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-P-258-12/18-G-19



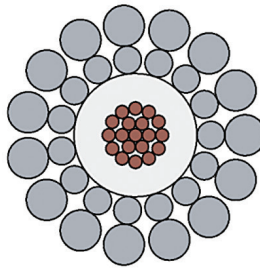
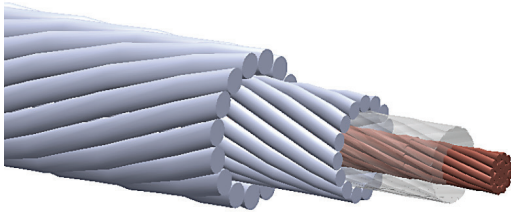
- 1/4" (6.55 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.032"	0.813 mm
Insulation – OD:	0.123"	3.124 mm
Aarmor – Inner : 12 Wires 0.0358":	0.186"	4.724 mm
Aarmor – Outer : 18 Wires 0.0358":	0.258"	6.553 mm

Mechanical Characteristics	English	Metric
Weight in Air:	122 lbs/kft	181 kg/km
Weight in Water:	104 lbs/kft	155 kg/km
Nominal Breaking Strength (Ends Fixed):	7,000 lbs	3,175 kg
Working Load (Maximum):	4,200 lbs	1,905 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.258 $\frac{+.005"}{-0.002"}$	6.55 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.14 m/km/5kN
Inner Wire Breaking Strength:	282 lbs (min)	128 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	3.0 Ω/kft	9.84 Ω/km
Capacitance Conductor to Armor:	50 pF/ft	164 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-258-12/18-G-19



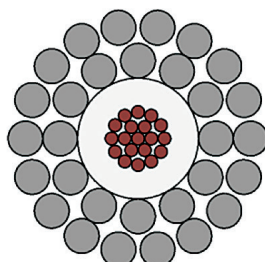
- 1/4" (6.55 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.032"	0.813 mm
Insulation – OD:	0.123"	3.124 mm
Armor – Inner : 12 Wires 0.0358":	0.186"	4.724 mm
Armor – Outer : 18 Wires 0.0358":	0.258"	6.553 mm

Mechanical Characteristics	English	Metric
Weight in Air:	126 lbs/kft	188 kg/km
Weight in Water:	103 lbs/kft	153 kg/km
Nominal Breaking Strength (Ends Fixed):	7,000 lbs	3,175 kg
Working Load (Maximum):	4,200 lbs	1,905 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.258 $\frac{+.005"}{-0.002"}$	6.55 $\frac{+0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.14 m/km/5kN
Inner Wire Breaking Strength:	282 lbs (min)	128 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	3.0 Ω/kft	9.84 Ω/km
Capacitance Conductor to Armor:	51 pF/ft	167 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-A-258-12/18-G-19



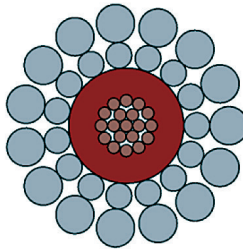
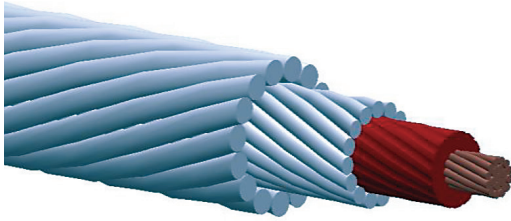
- 1/4" (6.55 mm) Mono Conductor Cable
- Temperature Rating 550°F (288°C)
- Conductor – Copper
- Insulation – PFA
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.032"	0.813 mm
Insulation – OD:	0.123"	3.124 mm
Aarmor – Inner : 12 Wires 0.0358":	0.186"	4.724 mm
Aarmor – Outer : 18 Wires 0.0358":	0.258"	6.553 mm

Mechanical Characteristics	English	Metric
Weight in Air:	126 lbs/kft	188 kg/km
Weight in Water:	104 lbs/kft	155 kg/km
Nominal Breaking Strength (Ends Fixed):	7,000 lbs	3,175 kg
Working Load (Maximum):	4,200 lbs	1,905 kg
Temperature Rating (Maximum):	550°F	288°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.258 $\frac{+.005"}{-0.002"}$	6.55 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.14 m/km/5kN
Inner Wire Breaking Strength:	282 lbs (min)	128 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	3.0 Ω/kft	9.84 Ω/km
Capacitance Conductor to Armor:	48 pF/ft	156 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-Q-258-12/18-G-19



- 1/4" (6.55 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

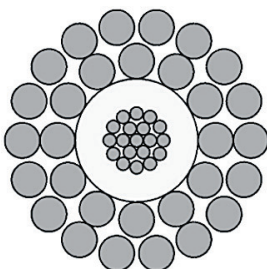
Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.032"	0.813 mm
Insulation – OD:	0.123"	3.124 mm
Armor – Inner : 12 Wires 0.0358":	0.186"	4.724 mm
Armor – Outer : 18 Wires 0.0358":	0.258"	6.553 mm

Mechanical Characteristics	English	Metric
Weight in Air:	122 lbs/kft	181 kg/km
Weight in Water:	104 lbs/kft	155 kg/km
Nominal Breaking Strength (Ends Fixed):	7,000 lbs	3,175 kg
Working Load (Maximum):	4,200 lbs	1,905 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.258 $\frac{+.005"}{-0.002"}$	6.55 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.14 m/km/5kN
Inner Wire Breaking Strength:	282 lbs (min)	128 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	3.0 Ω/kft	9.84 Ω/km
Capacitance Conductor to Armor:	50 pF/ft	164 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

Temperature Rating	Fahrenheit	Celsius
Short Term Max Temp [1 h]:	600°	315°
Intermediate Max Temp [8 h]:	550°	288°
Continuous Operating Temp:	510°	265°
Storage Temperature Range:	-400° to +510°	-240° to +265°

1-FT-258-12/18-75-19



Corrosion Resistant

- 1/4" (6.55 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 75

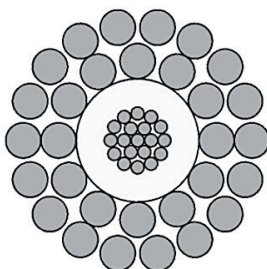
Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.032"	0.813 mm
Insulation – OD:	0.123"	3.124 mm
Armor – Inner : 12 Wires 0.0358":	0.186"	4.724 mm
Armor – Outer : 18 Wires 0.0358":	0.258"	6.553 mm

Mechanical Characteristics	English	Metric
Weight in Air:	127 lbs/kft	189 kg/km
Weight in Water:	108 lbs/kft	161 kg/km
Nominal Breaking Strength (Ends Fixed):	6,000 lbs	2,722 kg
Working Load (Maximum):	3,000 lbs	1,361 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.258 $\frac{+.005"}{-0.002"}$	6.55 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.3 ft/kft/klb	2.6 m/km/5kN
Inner Wire Breaking Strength:	247 lbs (min)	112 kg (min)
Outer Wire Breaking Strength:	247 lbs (min)	112 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
DC Armor Resistance at 68°F (20°C):	13.5 Ω/kft	44.3 Ω/km
Capacitance Conductor to Armor:	51 pF/ft	167 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 325°F (163°C). The cable is not recommended for use above this temperature as permanent deformation may occur.

1-FT-258-12/18-77-19



Corrosion Resistant

- 1/4" (6.55 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 77

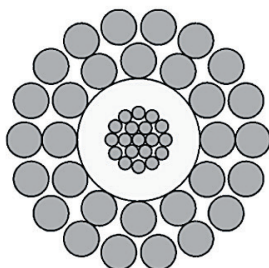
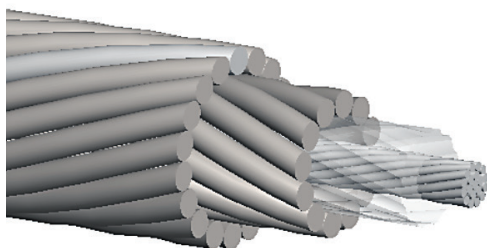
Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.032"	0.813 mm
Insulation – OD:	0.123"	3.124 mm
Armor – Inner : 12 Wires 0.0358":	0.186"	4.724 mm
Armor – Outer : 18 Wires 0.0358":	0.258"	6.553 mm

Mechanical Characteristics	English	Metric
Weight in Air:	127 lbs/kft	190 kg/km
Weight in Water:	107 lbs/kft	160 kg/km
Nominal Breaking Strength (Ends Fixed):	6,500 lbs	2,948 kg
Working Load (Maximum):	3,250 lbs	1,474 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.258 $\frac{+ .005"}{-0.002"}$	6.55 $\frac{+ 0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.3 ft/kft/klb	2.6 m/km/5kN
Inner Wire Breaking Strength:	272 lbs (min)	123 kg (min)
Outer Wire Breaking Strength:	272 lbs (min)	123 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
DC Armor Resistance at 68°F (20°C):	16.5 Ω/kft	54.2 Ω/km
Capacitance Conductor to Armor:	51 pF/ft	167 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 425°F (218°C). The cable is not recommended for use above this temperature as permanent deformation may occur.

1-FT-258-12/18-35N-19



Corrosion Resistant

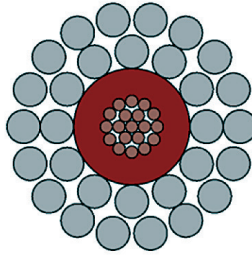
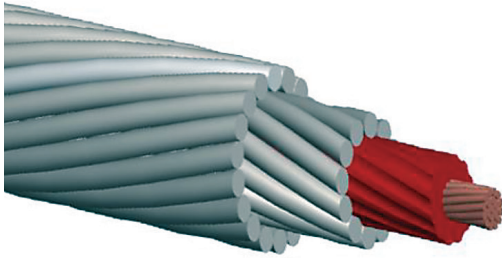
- 9/32" (7.31 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – MP35N

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0128":	0.064"	1.626 mm
Wall Thickness:	0.0365"	0.927 mm
Insulation – OD:	0.137"	3.480 mm
Armor – Inner : 12 Wires 0.040":	0.208"	5.283 mm
Armor – Outer : 18 Wires 0.040":	0.288"	7.315 mm

Mechanical Characteristics	English	Metric
Weight in Air:	167 lbs/kft	249 kg/km
Weight in Water:	144 lbs/kft	215 kg/km
Nominal Breaking Strength (Ends Fixed):	9,200 lbs	4,182 kg
Working Load (Maximum):	4,600 lbs	2,091 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.288 $\frac{+.005"}{-0.002"}$	7.32 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	1.9 ft/kft/klb	2.13 m/km/5kN
Inner Wire Breaking Strength:	335 lbs (min)	152 kg (min)
Outer Wire Breaking Strength:	335 lbs (min)	152 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,500 VDC	1,500 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	10.0 Ω/kft	32.8 Ω/km
Capacitance Conductor to Armor:	49 pF/ft	161 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-P-224-12/18-G-19



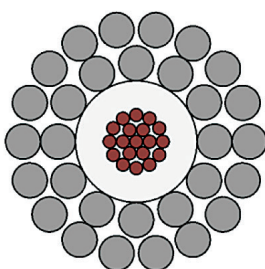
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Armor – Inner : 12 Wires 0.031":	0.162"	4.115 mm
Armor – Outer : 18 Wires 0.031":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	94 lbs/kft	140 kg/km
Weight in Water:	79 lbs/kft	118 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.5 ft/kft/klb	2.8 m/km/5kN
Inner Wire Breaking Strength:	204 lbs (min)	93 kg (min)
Outer Wire Breaking Strength:	204 lbs (min)	93 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
Capacitance Conductor to Armor:	59 pF/ft	193 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-224-12/18-G-19



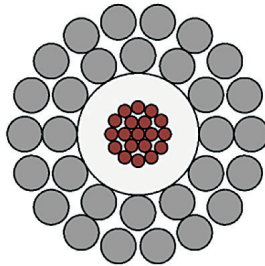
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Armor – Inner : 12 Wires 0.031":	0.162"	4.115 mm
Armor – Outer : 18 Wires 0.031":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	97 lbs/kft	145 kg/km
Weight in Water:	82 lbs/kft	122 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+ .005"}{-0.002"}$	5.69 $\frac{+ 0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.5 ft/kft/klb	2.8 m/km/5kN
Inner Wire Breaking Strength:	204 lbs (min)	93 kg (min)
Outer Wire Breaking Strength:	204 lbs (min)	93 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
Capacitance Conductor to Armor:	61 pF/ft	200 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-A-224-12/18-G-19



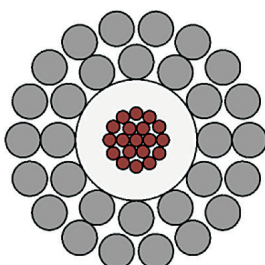
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 550°F (288°C)
- Conductor – Copper
- Insulation – PFA
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 12 Wires 0.031":	0.162"	4.115 mm
Aarmor – Outer : 18 Wires 0.031":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	99 lbs/kft	147 kg/km
Weight in Water:	84 lbs/kft	125 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	550°F	288°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+ .005"}{-0.002"}$	5.69 $\frac{+ 0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.5 ft/kft/klb	2.8 m/km/5kN
Inner Wire Breaking Strength:	204 lbs (min)	59 kg (min)
Outer Wire Breaking Strength:	204 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
Capacitance Conductor to Armor:	58 pF/ft	190 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-Q-224-12/18-G-19



- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 600°F (315°C)
- Conductor – Copper
- Insulation – Q600
- Armor – GIPS

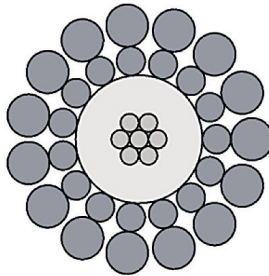
Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 12 Wires 0.031":	0.162"	4.115 mm
Aarmor – Outer : 18 Wires 0.031":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	99 lbs/kft	147 kg/km
Weight in Water:	84 lbs/kft	125 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	600°F	315°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.5 ft/kft/klb	2.8 m/km/5kN
Inner Wire Breaking Strength:	204 lbs (min)	93 kg (min)
Outer Wire Breaking Strength:	204 lbs (min)	93 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Aarmor Resistance at 68°F (20°C):	4.4 Ω/kft	14.4 Ω/km
Capacitance Conductor to Aarmor:	58 pF/ft	190 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

Temperature Rating	Fahrenheit	Celsius
Short Term Max Temp [1 h]:	600°	315°
Intermediate Max Temp [8 h]:	550°	288°
Continuous Operating Temp:	510°	265°
Storage Temperature Range:	-400° to +510°	-240° to +265°

1-FT-224-12/18-75-7



Corrosion Resistant

- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 75

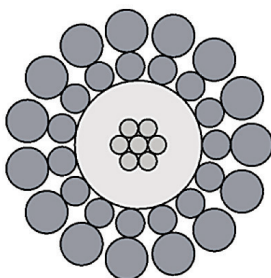
Construction Characteristics	English	Metric
Conductor – 18 AWG , 7 x 0.0159":	0.048"	1.219 mm
Wall Thickness:	0.030"	0.762 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 12 Wires 0.031":	0.162"	4.115 mm
Aarmor – Outer : 18 Wires 0.031":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	96 lbs/kft	143 kg/km
Weight in Water:	81 lbs/kft	120 kg/km
Nominal Breaking Strength (Ends Fixed):	4,800 lbs	2,180 kg
Working Load (Maximum):	2,400 lbs	1,100 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+ 0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.9 ft/kft/klb	3.3 m/km/5Kn
Inner Wire Breaking Strength:	186 lbs (min)	84 kg (min)
Outer Wire Breaking Strength:	186 lbs (min)	84 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	6.7 Ω /kft	22 Ω /km
DC Armor Resistance at 68°F (20°C):	18.1 Ω /kft	59.4 Ω /km
Capacitance Conductor to Armor:	45 pF/ft	148 pF/m
Minimum Insulation Resistance:	1,500 M Ω *kft	457 M Ω *km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 325°F (163°C). The cable is not recommended for use above this temperature as permanent deformation may occur.

1-FT-224-12/18-77-7

**Corrosion Resistant**

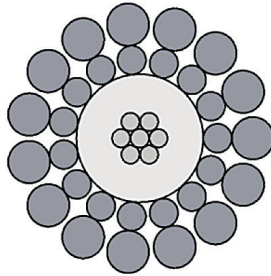
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 77

Construction Characteristics	English	Metric
Conductor – 18 AWG , 7 x 0.0159":	0.048"	1.219 mm
Wall Thickness:	0.030"	0.762 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 12 Wires 0.031":	0.162"	4.115 mm
Aarmor – Outer : 18 Wires 0.031":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	96 lbs/kft	143 kg/km
Weight in Water:	81 lbs/kft	120 kg/km
Nominal Breaking Strength (Ends Fixed):	5,200 lbf	2,360 kg
Working Load (Maximum):	2600 lbf	1,180 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	3.1 ft/kft/klb	3.5 m/km/5kN
Inner Wire Breaking Strength:	196 lbs (min)	89 kg (min)
Outer Wire Breaking Strength:	196 lbs (min)	89 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	6.7 Ω/kft	22 Ω/km
DC Armor Resistance at 68°F (20°C):	22.0 Ω/kft	72.2 Ω/km
Capacitance Conductor to Armor:	45 pF/ft	148 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-224-12/18-35N-7



Corrosion Resistant

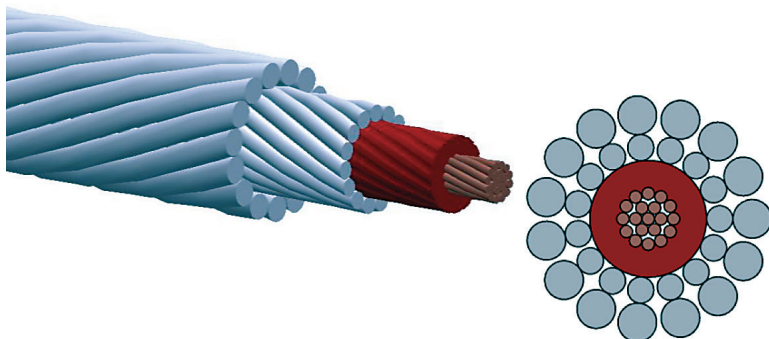
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy MP35N

Construction Characteristics	English	Metric
Conductor – 18 AWG , 7 x 0.0159":	0.048"	1.22 mm
Wall Thickness:	0.030"	0.76 mm
Insulation – OD:	0.108"	2.74 mm
Armor – Inner : 12 Wires 0.031":	0.162"	4.12 mm
Armor – Outer : 18 Wires 0.031":	0.224"	5.69 mm

Mechanical Characteristics	English	Metric
Weight in Air:	103 lbs/kft	153 kg/km
Weight in Water:	89 lbs/kft	132 kg/km
Nominal Breaking Strength (Ends Fixed):	5,200 lbf	2,360 kg
Working Load (Maximum):	2,600 lbf	1,180 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.9 ft/kft/klb	3.3 m/km/5kN
Inner Wire Breaking Strength:	204 lbs (min)	93 kg (min)
Outer Wire Breaking Strength:	204 lbs (min)	93 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	6.7 Ω /kft	22.0 Ω /km
DC Armor Resistance at 68°F (20°C):	22.0 Ω /kft	72.2 Ω /km
Capacitance Conductor to Armor:	45 pF/ft	148 pF/m
Minimum Insulation Resistance:	1,500 M Ω *kft	457 M Ω *km

1-P-224-15/15-G-19



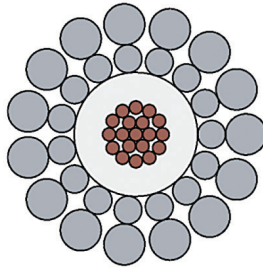
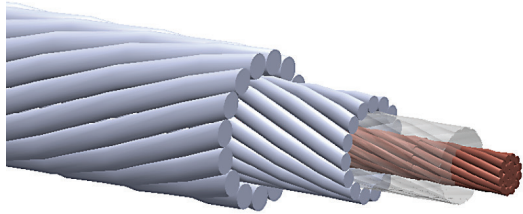
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Armor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Armor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	94 lbs/kft	140 kg/km
Weight in Water:	79 lbs/kft	118 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.2 ft/kft/klb	2.5 m/km/5kN
Inner Wire Breaking Strength:	129 lbs (min)	59 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	83 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.3 Ω/kft	14.1 Ω/km
Capacitance Conductor to Armor:	60 pF/ft	197 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-224-15/15-G-19



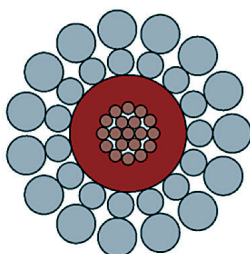
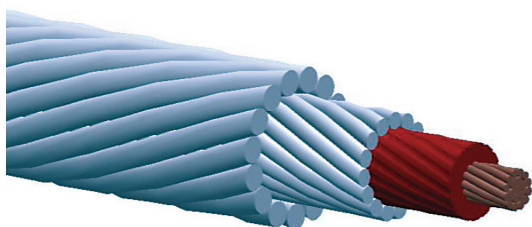
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Copper
- Insulation – FEP/ETFE
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Aarmor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	97 lbs/kft	144 kg/km
Weight in Water:	82 lbs/kft	122 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.2 ft/kft/klb	2.5 m/km/5kN
Inner Wire Breaking Strength:	129 lbs (min)	58 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.3 Ω/kft	14.1 Ω/km
Capacitance Conductor to Armor:	61 pF/ft	200 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-A-224-15/15-G-19



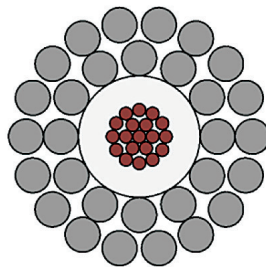
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 550°F (288°C)
- Conductor – Copper
- Insulation – PFA
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Aarmor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	99 lbs/kft	147 kg/km
Weight in Water:	84 lbs/kft	125 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	550°F	288°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.2 ft/kft/klb	2.5 m/km/5kN
Inner Wire Breaking Strength:	129 lbs (min)	59 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.3 Ω/kft	14.1 Ω/km
Capacitance Conductor to Armor:	58 pF/ft	190 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-Q-224-15/15-G-19



- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 600°F (315°C)
- Conductor – Copper
- Insulation – Q600
- Armor – GIPS

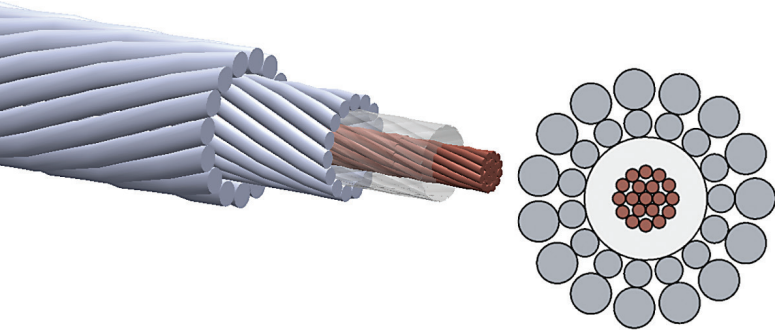
Construction Characteristics	English	Metric
Conductor – 16 AWG , 19 x 0.0119":	0.059"	1.499 mm
Wall Thickness:	0.0245"	0.622 mm
Insulation – OD:	0.108"	2.743 mm
Armor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Armor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	99 lbs/kft	147 kg/km
Weight in Water:	84 lbs/kft	125 kg/km
Nominal Breaking Strength (Ends Fixed):	5,600 lbs	2,540 kg
Working Load (Maximum):	3,360 lbs	1,524 kg
Temperature Rating (Maximum):	600°F	315°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127 \text{ mm}}{-0.051 \text{ mm}}$
Stretch Coefficient:	2.2 ft/kft/klb	2.5 m/km/5kN
Inner Wire Breaking Strength:	129 lbs (min)	59 kg (min)
Outer Wire Breaking Strength:	282 lbs (min)	128 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	4.0 Ω/kft	13.1 Ω/km
DC Armor Resistance at 68°F (20°C):	4.3 Ω/kft	14.1 Ω/km
Capacitance Conductor to Armor:	58 pF/ft	190 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

Temperature Rating	Fahrenheit	Celsius
Short Term Max Temp [1 h]:	600°	315°
Intermediate Max Temp [8 h]:	550°	288°
Continuous Operating Temp:	510°	265°
Storage Temperature Range:	-400° to +510°	-240° to +265°

1-FT-224-15/15-75-7



Corrosion Resistant

- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 75

Construction Characteristics	English	Metric
Conductor – 18 AWG , 7 x 0.0159":	0.047"	1.193 mm
Wall Thickness:	0.0305"	0.774 mm
Insulation – OD:	0.108"	2.743 mm
Armor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Armor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

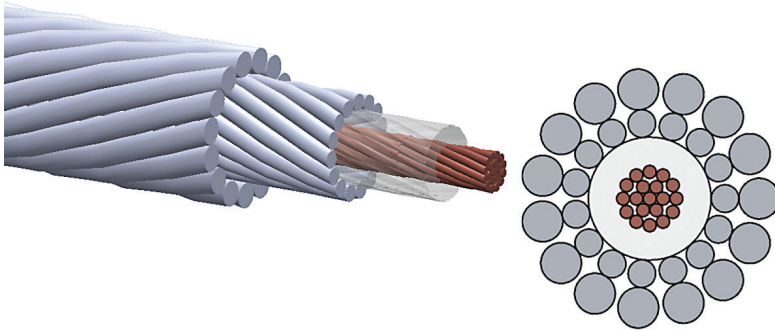
Mechanical Characteristics	English	Metric
Weight in Air:	93 lbs/kft	139 kg/km
Weight in Water:	80 lbs/kft	119 kg/km
Nominal Breaking Strength (Ends Fixed):	4,800 lbs	2,177 kg
Working Load (Maximum):	2,400 lbs	1,088 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.6 ft/kft/klb	2.9 m/km/5kN
Inner Wire Breaking Strength:	115 lbs (min)	52 kg (min)
Outer Wire Breaking Strength:	247 lbs (min)	112 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	6.7 Ω/kft	22.0 Ω/km
DC Armor Resistance at 68°F (20°C):	16.0 Ω/kft	52.5 Ω/km
Capacitance Conductor to Armor:	44 pF/ft	144 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

The temperature rating is for the insulation material. WARNING: Corrosion resistant steel loses its elastic properties after 325°F (163°C). The cable is not recommended for use above this temperature as permanent deformation may occur. Copyright ©2024

Conventional

1-FT-224-15/15-77-7



Corrosion Resistant

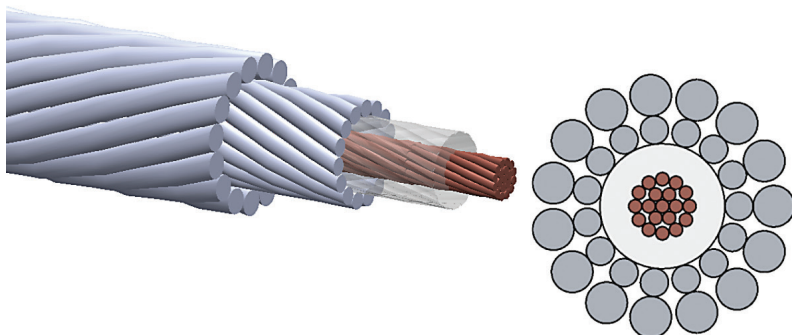
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy 77

Construction Characteristics	English	Metric
Conductor – 18 AWG , 7 x 0.0159":	0.047"	1.193 mm
Wall Thickness:	0.0305"	0.774 mm
Insulation – OD:	0.108"	2.743 mm
Armor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Armor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	93 lbs/kft	139 kg/km
Weight in Water:	79 lbs/kft	118 kg/km
Nominal Breaking Strength (Ends Fixed):	5,200 lbs	2,358 kg
Working Load (Maximum):	2,600 lbs	1,179 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.5 ft/kft/klb	2.8 m/km/5kN
Inner Wire Breaking Strength:	125 lbs (min)	57 kg (min)
Outer Wire Breaking Strength:	272 lbs (min)	123 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	6.7 Ω/kft	22.0 Ω/km
DC Armor Resistance at 68°F (20°C):	18.5 Ω/kft	60.4 Ω/km
Capacitance Conductor to Armor:	44 pF/ft	144 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-FT-224-15/15-35N-7



Corrosion Resistant

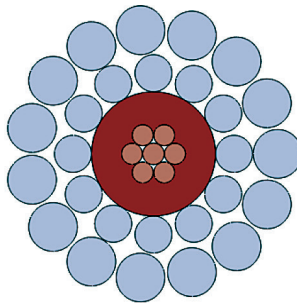
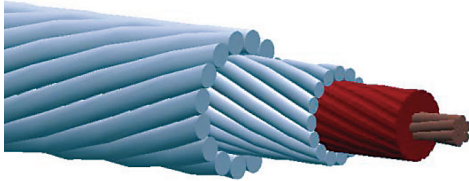
- 7/32" (5.69 mm) Mono Conductor Cable
- Temperature Rating 500°F (260°C)
- Conductor – Cu-Ni
- Insulation – FEP/ETFE
- Armor – Alloy MP35N

Construction Characteristics	English	Metric
Conductor – 18 AWG , 7 x 0.0159":	0.047"	1.193 mm
Wall Thickness:	0.0305"	0.774 mm
Insulation – OD:	0.108"	2.743 mm
Aarmor – Inner : 15 Wires 0.0243":	0.152"	3.861 mm
Aarmor – Outer : 15 Wires 0.0358":	0.224"	5.690 mm

Mechanical Characteristics	English	Metric
Weight in Air:	99 lbs/kft	147 kg/km
Weight in Water:	85 lbs/kft	127 kg/km
Nominal Breaking Strength (Ends Fixed):	5,200 lbs	2,358 kg
Working Load (Maximum):	2,600 lbs	1,202 kg
Temperature Rating (Maximum):	500°F	260°C
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.224 $\frac{+.005"}{-0.002"}$	5.69 $\frac{+0.127\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	2.5 ft/kft/klb	2.8 m/km/5kN
Inner Wire Breaking Strength:	125 lbs (min)	57 kg (min)
Outer Wire Breaking Strength:	272 lbs (min)	123 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,200 VDC	1,200 VDC
DC Conductor Resistance at 68°F (20°C):	6.7 Ω/kft	22.0 Ω/km
DC Armor Resistance at 68°F (20°C):	22.0 Ω/kft	72.2 Ω/km
Capacitance Conductor to Armor:	44 pF/ft	144 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-P-185-12/15-G-7



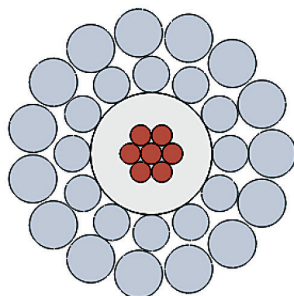
- 3/16" (4.699 mm) Mono Conductor Cable
- Temperature Rating 300°F (149°C)
- Conductor – Copper
- Insulation – Polypropylene
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 20 AWG , 7 x 0.0128":	0.038"	0.965 mm
Wall Thickness:	0.023"	0.584 mm
Insulation – OD:	0.084"	2.135 mm
Aarmor – Inner : 12 Wires 0.0240":	0.125"	3.175 mm
Aarmor – Outer : 15 Wires 0.0298":	0.185"	4.699 mm

Mechanical Characteristics	English	Metric
Weight in Air:	63 lbs/kft	94 kg/km
Weight in Water:	54 lbs/kft	80 kg/km
Nominal Breaking Strength (Ends Fixed):	3,900 lbf	17.35 kN
Working Load (Maximum):	1,950 lbf	8.67 kN
Temperature Rating (Maximum):	300°F	149°C
Suggested Minimum Sheave:	12" dia.	305 mm
Outside Diameter:	0.185 $\frac{+.003"}{-0.002"}$	4.70 $\frac{+0.102\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	4.0 ft/kft/klb	4.5 m/km/5kN
Inner Wire Breaking Strength:	127 lbs (min)	58 kg (min)
Outer Wire Breaking Strength:	198 lbs (min)	90 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,000 VDC	1,000 VDC
DC Conductor Resistance at 68°F (20°C):	9.8 Ω/kft	32.2 Ω/km
DC Armor Resistance at 68°F (20°C):	6.4 Ω/kft	21.0 Ω/km
Capacitance Conductor to Armor:	46 pF/ft	151 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-A-185-12/15-G-7



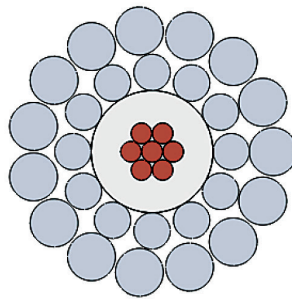
- 3/16" (4.699 mm) Mono Conductor Cable
- Temperature Rating 550°F (288°C)
- Conductor – Copper
- Insulation – PFA
- Armor – GIPS

Construction Characteristics	English	Metric
Conductor – 20 AWG , 7 x 0.0128":	0.038"	0.965 mm
Wall Thickness:	0.023"	0.584 mm
Insulation – OD:	0.084"	2.135 mm
Aarmor – Inner : 12 Wires 0.0240":	0.125"	3.175 mm
Aarmor – Outer : 15 Wires 0.0298":	0.185"	4.699 mm

Mechanical Characteristics	English	Metric
Weight in Air:	66 lbs/kft	98 kg/km
Weight in Water:	56 lbs/kft	83 kg/km
Nominal Breaking Strength (Ends Fixed):	3,900 lbs	17.35 kN
Working Load (Maximum):	1,950 lbs	8.67 kN
Temperature Rating (Maximum):	550°F	288°C
Suggested Minimum Sheave:	12" dia.	305 mm
Outside Diameter:	0.185 $\frac{+.003"}{-0.002"}$	4.70 $\frac{+0.120\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	4.0 ft/kft/klb	4.5 m/km/5kN
Inner Wire Breaking Strength:	127 lbs (min)	58 kg (min)
Outer Wire Breaking Strength:	198 lbs (min)	90 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,000 VDC	1,000 VDC
DC Conductor Resistance at 68°F (20°C):	9.8 Ω/kft	32.2 Ω/km
DC Armor Resistance at 68°F (20°C):	6.4 Ω/kft	21.0 Ω/km
Capacitance Conductor to Armor:	45 pF/ft	146 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

1-Q-185-12/15-G-7



- 3/16" (4.699 mm) Mono Conductor Cable
- Temperature Rating 600°F (315°C)
- Conductor – Copper
- Insulation – Q600
- Armor – GIPS

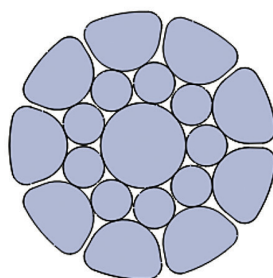
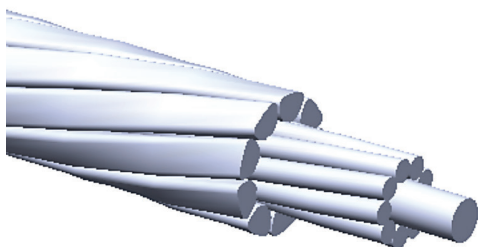
Construction Characteristics	English	Metric
Conductor – 20 AWG , 7 x 0.0128":	0.038"	0.965 mm
Wall Thickness:	0.023"	0.584 mm
Insulation – OD:	0.084"	2.135 mm
Aarmor – Inner : 12 Wires 0.0240":	0.125"	3.175 mm
Aarmor – Outer : 15 Wires 0.0298":	0.185"	4.699 mm

Mechanical Characteristics	English	Metric
Weight in Air:	66 lbs/kft	98 kg/km
Weight in Water:	56 lbs/kft	83 kg/km
Nominal Breaking Strength (Ends Fixed):	3,900 lbs	17.35 kN
Working Load (Maximum):	1,950 lbs	8.67 kN
Temperature Rating (Maximum):	600°F	315°C
Suggested Minimum Sheave:	12" dia.	305 mm
Outside Diameter:	0.185 $\frac{+.003"}{-0.002"}$	4.70 $\frac{+0.102\text{ mm}}{-0.051\text{ mm}}$
Stretch Coefficient:	4.0 ft/kft/klb	4.5 m/km/5kN
Inner Wire Breaking Strength:	127 lbs (min)	58 kg (min)
Outer Wire Breaking Strength:	198 lbs (min)	90 kg (min)

Electrical Characteristics	English	Metric
Voltage Rating:	1,000 VDC	1,000 VDC
DC Conductor Resistance at 68°F (20°C):	9.8 Ω/kft	32.2 Ω/km
DC Armor Resistance at 68°F (20°C):	6.4 Ω/kft	21.0 Ω/km
Capacitance Conductor to Armor:	45 pF/ft	146 pF/m
Minimum Insulation Resistance:	1,500 MΩ*kft	457 MΩ*km

Temperature Rating	Fahrenheit	Celsius
Short Term Max Temp [1 h]:	600°	315°
Intermediate Max Temp [8 h]:	550°	288°
Continuous Operating Temp:	510°	265°
Storage Temperature Range:	-400° to +510°	-240° to +265°

3/16" DyPak

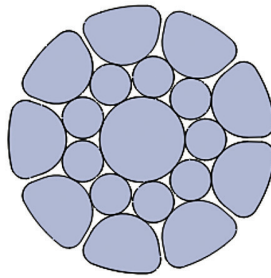
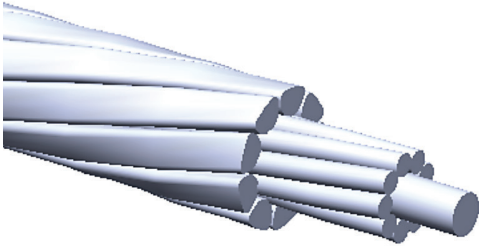


- Construction – 9/9/1 (1 x 19)
- Armor - GIPS

Construction Characteristics	English	Metric
Cable – OD:	0.188"	4.775 mm
Armor – Center Wire:	0.0575"	1.460 mm
Inner Lay Direction:	Right	Right
Inner Wires:	9 x 0.0275"	9 x 0.698 mm
Outer Lay Direction:	Right	Right
Outer Wires:	9 x 0.0495"	9 x 1.257 mm

Mechanical Characteristics	English	Metric
Weight in Air:	85 lbs/kft	127 kg/km
Nominal Breaking Strength (Ends Fixed):	6,400 lbf	28.5 kN
Working Load (Maximum):	3,200 lbf	14.2 kN
Suggested Minimum Sheave:	12" dia.	304 mm
Outside Diameter:	0.188 $\frac{+2\%}{-0\%}$	4.78 $\frac{+2\%}{-0\%}$
Stretch Coefficient:	2.17 ft/kft/klb	2.44 m/km/5kN

7/32" DyPak

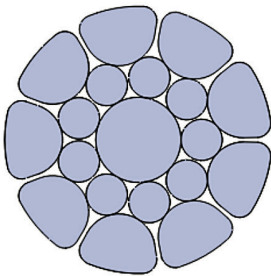
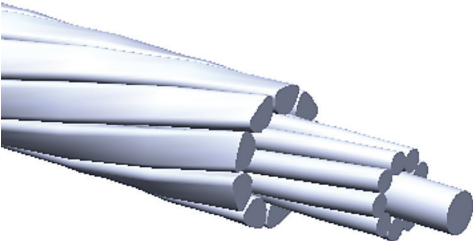


- Construction – 9/9/1 (1 x 19)
- Armor - GIPS

Construction Characteristics	English	Metric
Cable – OD:	0.219"	5.562 mm
Armor – Center Wire:	0.066"	1.676 mm
Inner Lay Direction:	Right	Right
Inner Wires:	9 x 0.0325"	9 x 0.825 mm
Outer Lay Direction:	Right	Right
Outer Wires:	9 x 0.0575"	9 x 1.460 mm

Mechanical Characteristics	English	Metric
Weight in Air:	114 lbs/kft	170 kg/km
Nominal Breaking Strength (Ends Fixed):	8,600 lbf	38.2 kN
Working Load (Maximum):	4,300 lbf	19.1 kN
Suggested Minimum Sheave:	14" dia.	356 mm
Outside Diameter:	0.219 $\frac{+2\%}{-0\%}$	5.56 $\frac{+2\%}{-0\%}$
Stretch Coefficient:	1.28 ft/kft/klb	1.44 m/km/5kN

1/4" DyPak



- Construction – 9/9/1 (1 x 19)
- Armor - GIPS

Construction Characteristics	English	Metric
Cable – OD:	0.250"	6.350 mm
Armor – Center Wire:	0.075"	1.905 mm
Inner Lay Direction:	Right	Right
Inner Wires:	9 x 0.037"	9 x 0.939 mm
Outer Lay Direction:	Right	Right
Outer Wires:	9 x 0.066"	9 x 1.676 mm

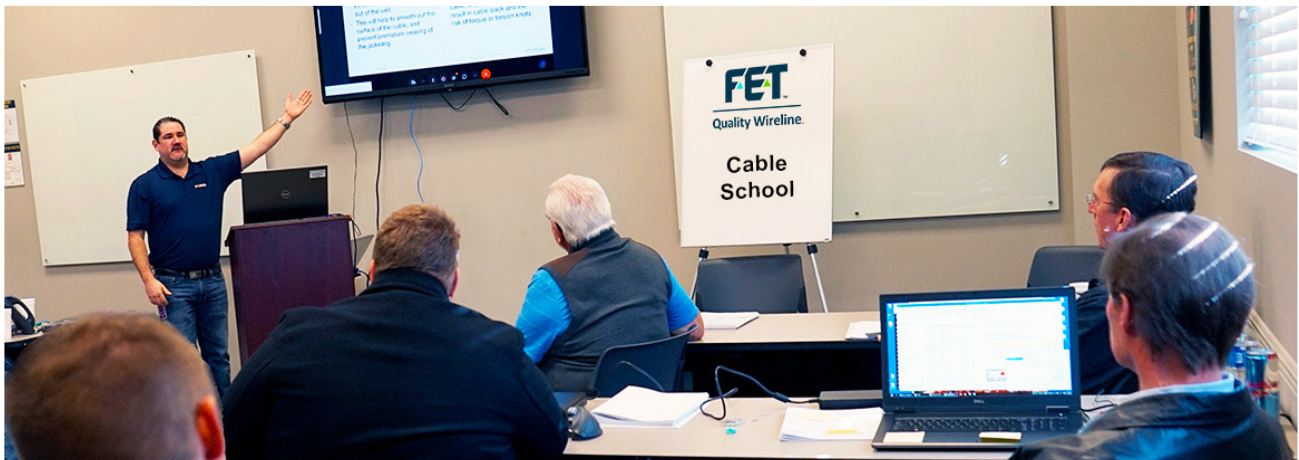
Mechanical Characteristics	English	Metric
Weight in Air:	158 lbs/kft	235 kg/km
Nominal Breaking Strength (Ends Fixed):	11,000 lbf	48.9 kN
Working Load (Maximum):	5,500 lbf	24.5 kN
Suggested Minimum Sheave:	16" dia.	406 mm
Outside Diameter:	0.250 $\frac{+2\%}{-0\%}$	6.35 $\frac{+2\%}{-0\%}$
Stretch Coefficient:	0.87 ft/kft/klb	0.98 m/km/5kN

DyPak

Conventional

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Fax: (817) 293-1638
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Gotcher Wireline Service Inc.

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Fax: (432) 563-3623
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roberty.horizoncable@coxinet.net
www.horizoncableinc.com

Horizon Cable Services Inc.

623 Industrial Ave
Liberal, KS, 67901
Tel: (620) 309-8091
Fax: (620) 624-5313
Contact: Alan Richardson
arichardson.horizoncable@coxinet.net
www.horizoncableinc.com

Horizon Cable Services Inc.

715 S. Eastman Rd.
Longview, TX, 75604
Phone: (903) 234-1558
Fax: (903) 234-1510
Contact: Robert Young
roberty.horizoncable@coxinet.net
www.horizoncableinc.com

Horizon Cable Services Inc.

102096 I H 37
Pleasanton, TX, 78064
Tel: (210) 693-2142
Contact: Kurt Willoughby, Robert Young
kwilloughby@horizoncableinc.com
roberty@horizoncableinc.com
www.horizoncableinc.com

Madden's Cable Service

126 Lafferty Drive
Broussard, LA, 70518
Tel: (985) 879-3591
Fax: (985) 879-3592
Contact: Jerry Madden
jerrymadden55@gmail.com
madden@triparish.net

Madden's Cable Service

146 Clendenning Road
Houma, LA, 70363
Tel: (985) 879-3591
Fax: (985) 879-3592
Contact: Jerry Madden
jerrymadden55@gmail.com
madden@triparish.net

Authorized Service Centers

United States (continued)

Matex Wire Rope Co. Inc.

1215 Industrial Blvd.
Kilgore, TX, 75662
Tel: (903) 984-9691
Fax: (903) 984-5755
Contact: Mike Mathews
mmat9462@aol.com
www.matex.us

Matex Wire Rope Co. Inc.

467 Montgomery Street
Shreveport, LA, 71107
Tel: (903) 984-9691
Fax: (903) 984-5755
Contact: Mike Mathews
mmat9462@aol.com
www.matex.us

Matex Wire Rope Co. Inc.

10608 County Road 150
Midland, TX, 79706
Tel: (361) 664-7424
Contact: Mike Mathews
mmat9462@aol.com
www.matex.us

Sector Wireline

905 Millstone Court
Sugarland, TX, 77478
Tel: (713) 252-4702
Contact: Joe Davidson

**Splicer Cable
Services & Supply Inc.**

13667 East US Highway 20-26
Evansville, WY, 82604
Tel: (307) 472-3318
Fax: (307) 472-0663
Contact: Adam McLaughlin
wizercable@hotmail.com

The Line Shop Inc.

5700 SW 11th Street
Oklahoma City, OK, 73128
Tel: (405) 942-8828
Fax: (405) 942-5085
Contact: Cullen Falgout, Sharon Pitts
Cullen@thelineshopusa.com
Sharon@thelineshopusa.com
www.thelineshop.net

Wayne's Wireline L.L.C.

2174 US 22 Highway West
Blairsville, PA, 15717
Tel: (724) 459-5510
Contact: Wayne Stevens,
Jesse Rostash
wayne@wayneswirerope.com
jesse@wayneswirerope.com

Wayne's Wireline L.L.C.

428 S 11th Street
Cambridge, OH, 43725
Tel: (740) 630-8547
Contact: Wayne Stevens
wayne@wayneswirerope.com
www.wayneswirerope.com

WRC Inc.

2282 US HWY 281 S
Pleasanton, TX, 78064
Tel: (830) 569-2700
Contact: Randy Greenhill
rlgreenhill@gmail.com
www.wrcinc.net

Canada

Roberts Conductor Cable Ltd.

53228 Range Road 31
Parkland County, Alberta, Canada, T7Y 0E3
Tel: (780) 892-2510
Contact: John Roberts
info@robertscable.com
www.robertscable.com

Central Conductor Cable Ltd.

3705 52 Avenue
Wolf Creek Industrial Park
Lacombe, Alberta, Canada, T4L 0B9
Tel: (403) 782-2238
Fax: (403) 782-3239
Contact: Bryce Edwards
bryce@centralconductorcable.com
info@centralconductorcable.com
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Need Assistance?

Contact Your Regional Cable Expert Today

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OUR CORE VALUES

No One Gets Hurt

The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

Integrity

In everything we do, in every interaction, both internally and externally, we strive to operate with the utmost integrity and mutual respect.

Customer Focused

Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

Good Place To Work

We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.

Forum Energy Technologies



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Houston, TX 77064



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