> > Classification

Classification according to outer diameter

5.6 mm electro–mechanical cable;
8.0mm electro–mechanical cable;
11.8mm electro–mechanical cable;
12.7mm electro–mechanical cable;
13.2mm electro–mechanical cable;

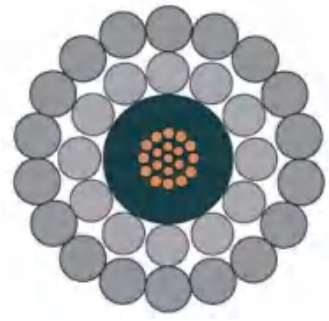
Classification according to conductors

Mono conductor electro–mechanical cable;
3–conductor electro–mechanical cable;
4–conductor electro–mechanical cable;
7–conductor electro–mechanical cable;

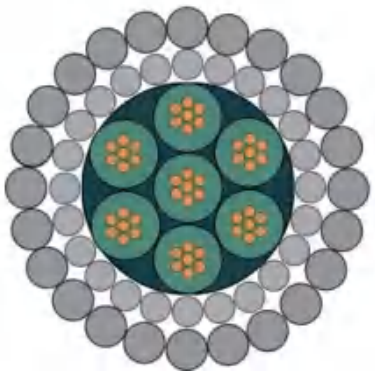
Classification according to temperature ratings

1. Nominal temperature logging cable:
Temperature rating is –30 ~ 150℃,continuous operating temperature 100℃
2. Nominal temperature logging cable:
Temperature rating is –30 ~ 180℃,continuous operating temperature 150℃
3. High temperature logging cable:
Temperature rating is –50 ~ 232℃,continuous operating temperature 200℃
4. High temperature logging cable:
Temperature rating is –50 ~ 300℃,continuous operating temperature 260℃

>> Logging cable (Logging cable for short) cross section chart

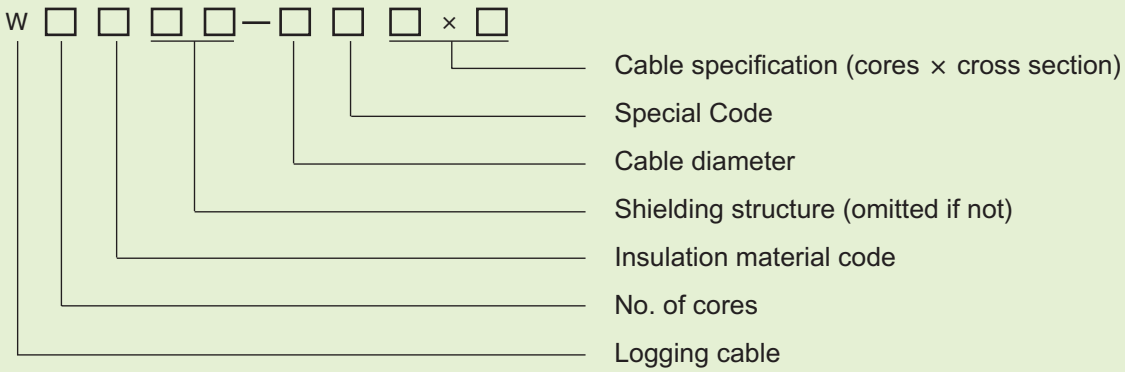


1. Single conductor EM cable chart:
Type: W1B – 5.6 1 × 1.0



2. 7–conductor EM cable chart:
Type: W7B – 11.8 7 × 0.56

>> Logging Cable type designation



◆ **Insulation:** PP / FEP / PFA / ETFE

Usually we use PP and FEP as insulation,but we can produce according to customer's require–ment to choose different insulation material,such as PFA and ETFE.

◆ **No of cores:** 1 cores / 3 cores / 4 cores / 7 cores

We mainly produce cores of 1,3,4 and 7,but we can design according to customer's requirement.

◆ **Cable diameter:** 5.6mm / 8.0mm / 11.8 mm / 12.7 mm / 13.2mm

◆ **Armour material:** High–carbon steel wire

Nickel–chromium–molybdenum alloy steel wire

◆ **Special code:** FL means anti–H_2S

◆ **Model:** 7–conductors,0.56mm^2, Φ 11.8,pp insulation,phase & outer shielding,anti–H_2S logging cable Type is W7BPP — 11.8FL 7 × 0.56 mm^2

◆ **Note:** PP material code is B,FEP material code is F,Shielding structure code is P.

>> Logging Cable Specifications

NO.	Type	Maximum work tension		Breaking Strength		Cable Weight in Air		Cable Weight in Water	
		In lbs	In kN	In lbs	In kN	lbs/kft	kg/km	lbs/kft	kg/km
1	W1B-5.6 1 × 0.56	4048	18	5622	25	90	134	73	109
2	W1B-5.6 1 × 1.0	4048	18	5622	25	90	134	73	109
3	W1F-5.6 1 × 1.0	4048	18	5622	25	90	134	73	109
4	W1F-5.6FL 1 × 1.0	4048	18	5622	25	90	134	73	109
5	W3BP-5.6 3 × 0.20	4048	18	5622	25	90	134	73	109
6	W3FP-5.6 3 × 0.20	4048	18	5622	25	90	134	73	109
7	W4BP-5.6 4 × 0.20	4048	18	5622	25	95	142	78	117
8	W4FP-5.6 4 × 0.20	4048	18	5622	25	98	147	82	122
9	W1B-8.0 1 × 1.0	7875	35	10000	45	189	282	155	231
10	W1F-8.0 1 × 1.5	7875	35	10000	45	198	295	164	244
11	W1B-8.0 1 × 2.0	7875	35	10000	45	198	295	164	244
12	W1F-8.0 1 × 2.0	7875	35	10000	45	198	295	164	244
13	W1F-8.0FL 1 × 1.0	6000	27	8000	36	189	282	155	231
14	W3BP-8.0 3 × 0.5	7421	33	10000	45	172	256	138	205
15	W3FP-8.0 3 × 0.5	7421	33	10000	45	178	266	145	215
16	W4BP-8.0 4 × 0.5	7421	33	10000	45	172	256	138	205
17	W4FP-8.0 4 × 0.5	7421	33	10000	45	178	265	144	214
18	W3BP-11.8 3 × 1.12	13500	60	17992	80	330	492	257	382
19	W3FP-11.8 3 × 1.12	13500	60	17992	80	354	528	164	244
20	W7FP-11.8 7 × 0.56	13500	60	17992	80	354	528	164	244
21	W7FPP-11.8FL 7 × 0.56	10795	48	14393	64	354	528	164	244
22	W7BPP-11.8 7 × 0.56	13500	60	17992	80	331	494	258	348
23	W7BPP-12.7 7 × 0.56	14168	63	19000	85	349	520	275	410
24	W7FP-12.7 7 × 0.56	14168	63	19000	85	349	520	275	410
25	W7BPP-13.2 7 × 0.56	20241	90	26988	120	441	657	350	520
26	W7FP-13.2 7 × 0.56	20241	90	26988	120	465	692	369	550

>> W1B–5.6 1 × 0.56

Mono Conductor 5.6mm Polypropylene Insulation Logging Cable

7/32"(5.6mm) Mono Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 20AWG，7 × 0.0128	dia. 0.038″	0.96mm
Wall Thickness	dia. 0.028″	0.72mm
Max Insulation Diameter	dia. 0.094″	2.40mm
Inner Armor：12 Wires 0.0315	dia. 0.1575″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220″	5.6mm
Mechanical Parameters		
Weight in Air	90lbs/kft	134kg/km
Weight in Water	73lbs/kft	109kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 11″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.4 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	52pF/ft	170pF/m
Minimum Insulation Resistance	700M Ω · kft	200M Ω · km

>> W1B–5.6 1 × 1.0

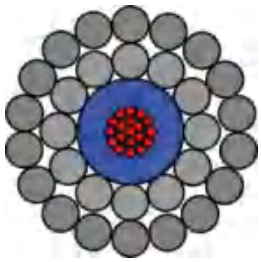
Mono Conductor 5.6mm Polypropylene Insulation Logging Cable

7/32"(5.6mm) Mono Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 18AWG，7 × 0.0169	dia. 0.050 ″	1.29mm
Wall Thickness	dia. 0.021 ″	0.55mm
Max Insulation Diameter	dia. 0.094 ″	2.40mm
Inner Armor：12 Wires 0.0315	dia. 0.1575 ″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220 ″	5.6mm
Mechanical Parameters		
Weight in Air	90lbs/kft	134kg/km
Weight in Water	73lbs/kft	109kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 11 ″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.4 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	52pF/ft	170pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W1F–5.6 1 × 1.0

Mono Conductor Fluoroplastics Insulation Logging Cable



7/32"(5.6mm) Mono Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 18AWG，19 × 0.010	dia. 0.050″	1.30mm
Wall Thickness	dia. 0.021″	0.55 mm
Max Insulation Diameter	dia. 0.094″	2.40mm
Inner Armor：12 Wires 0.0315	dia. 0.1575″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220″	5.6mm
Mechanical Parameters		
Weight in Air	90lbs/kft	134kg/km
Weight in Water	73lbs/kft	109kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 11″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.4 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	52pF/ft	170pF/m
Minimum Insulation Resistance	1,640M Ω · kft	500M Ω · km

>> W1F–5.6FL 1 × 1.0

Mono Conductor 5.6mm Fluoroplastics Insulation Anti–sulfur Log–ging Cable

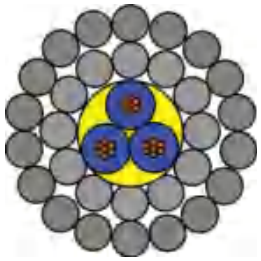
7/32"(5.6mm) Mono Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––Nickel–chromium–molybdenum alloy

Construction Parameters	English	Metric
Conductor 18Wires，19 × 0.010	dia. 0.050 ″	1.30mm
Wall Thickness	dia. 0.021 ″	0.55 mm
Max Insulation Diameter	dia. 0.094 ″	2.40mm
Inner Armor：12 Wires 0.0315	dia. 0.1575 ″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220 ″	5.6mm
Mechanical Parameters		
Weight in Air	90lbs/kft	134kg/km
Weight in Water	73lbs/kft	109kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 11 ″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.4 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	52pF/ft	170pF/m
Minimum Insulation Resistance	1640M Ω · kft	500M Ω · km

Nickel–chromium–molybdenum alloy

>> W3BP–5.6 3 × 0.20

3 Conductor 5.6mm Polypropylene Insulation Overall Shielding Log–ging Cable

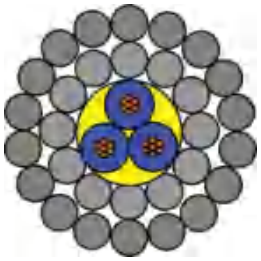


7/32"(5.6mm) 3 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 24AWG，7 × 0.00787	dia. 0.024″	0.60mm
Wall Thickness	dia. 0.010″	0.25 mm
Max Insulation Diameter	dia. 0.043″	1.1mm
Inner Armor：12 Wires 0.0315	dia. 0.1575″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220″	5.6mm
Mechanical Parameters		
Weight in Air	90lbs/kft	134kg/km
Weight in Water	73lbs/kft	109kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 11″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	25.9 Ω /kft	85 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	700M Ω · kft	200M Ω · km

>> W3FP–5.6 3 × 0.20

3 Conductor 5.6mm Polypropylene Insulation Overall Shielding Logging Cable

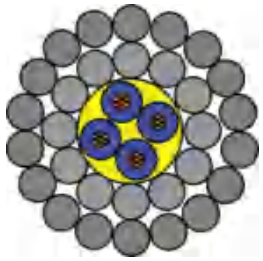


7/32"(5.6mm) 3 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 24 AWG，7 × 0.00787	dia. 0.024″	0.60mm
Wall Thickness	dia. 0.010″	0.25 mm
Max Insulation Diameter	dia. 0.043″	1.1mm
Inner Armor：12 Wires 0.0315	dia. 0.1575″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220″	5.6mm
Mechanical Parameters		
Weight in Air	90lbs/kft	134kg/km
Weight in Water	73lbs/kft	109kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 11 ″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	25.9 Ω /kft	85 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	700M Ω · kft	200M Ω · km

>> W4BP–5.6 4 × 0.20

4 Conductor 5.6mm Polypropylene Insulation Overall Shielding Log–ging Cable

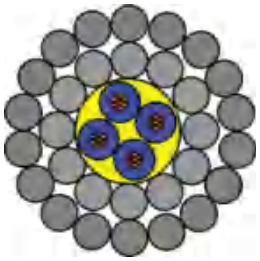


7/32"(5.6mm) 4 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 24AWG，7 × 0.00787	dia. 0.024 ″	0.60mm
Wall Thickness	dia. 0.011 ″	0.28 mm
Max Insulation Diameter	dia. 0.043 ″	1.15mm
Inner Armor：12 Wires 0.0315	dia. 0.1575 ″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220 ″	5.6mm
Mechanical Parameters		
Weight in Air	95lbs/kft	142kg/km
Weight in Water	78lbs/kft	117kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 11 ″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	25.9 Ω /kft	85 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	700M Ω · kft	200M Ω · km

>> W4FP–5.6 4 × 0.20

4 Conductor 5.6mm Polypropylene Insulation Overall Shielding Logging Cable



7/32"(5.6mm) 4 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 24 AWG，7 × 0.00787	dia. 0.024 ″	0.60mm
Wall Thickness	dia. 0.011 ″	0.28 mm
Max Insulation Diameter	dia. 0.043 ″	1.15mm
Inner Armor：18 Wires 0.0236	dia. 0.1575 ″	4.0mm
Outer Armor：18 Wires 0.0315	dia. 0.220 ″	5.6mm
Mechanical Parameters		
Weight in Air	98lbs/kft	147kg/km
Weight in Water	82lbs/kft	122kg/km
Breaking Strength (Ends Fixed)	5622lbs	25kN
Working Load (Maximum)	4048lbs	18kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 11 ″	280mm
Outside Diameter	0.220	5.6
Stretch Coefficient	2.22ft/kft/klb	2.5m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	25.9 Ω /kft	85 Ω /km
DC Armor Resistance at 68° F (20℃)	2.78 Ω /kft	9.14 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	1640M Ω · kft	500M Ω · km

>> W1B–8.0 1 × 1.0

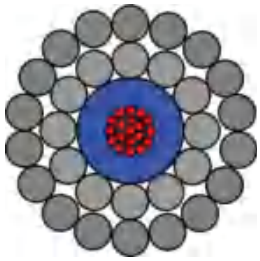
Mono Conductor 8.0mm Propylene Insulation Logging Cable

5/16"(8.0mm) Mono Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 18AWG，7 × 0.0169	dia. 0.051″	1.29mm
Wall Thickness	dia. 0.042″	1.05 mm
Max Insulation Diameter	dia. 0.134″	3.4mm
Inner Armor：12 Wires 0.0452	dia. 0.224″	5.7mm
Outer Armor：18 Wires 0.0452	dia. 0.315″	8.0mm
Mechanical Parameters		
Weight in Air	189lbs/kft	282kg/km
Weight in Water	155lbs/kft	231kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7875lbs	35kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 16″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	5.48 Ω /kft	18 Ω /km
DC Armor Resistance at 68° F (20℃)	1.34 Ω /kft	4.42 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W1F–8.0 1 × 1.5

Mono Conductor 8.0mm Fluoroplastics Insulation Logging Cable

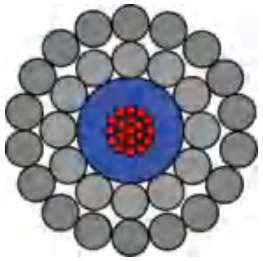


5/16"(8.0mm) Mono Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 16 AWG，7 × 0.0126	dia. 0.063 ″	1.6mm
Wall Thickness	dia. 0.035 ″	0.9 mm
Max Insulation Diameter	dia. 0.134 ″	3.4mm
Inner Armor：12 Wires 0.0452	dia. 0.224 ″	5.7mm
Outer Armor：18 Wires 0.0452	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	198lbs/kft	295kg/km
Weight in Water	164lbs/kft	244kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7875lbs	35kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 16 ″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	5.48 Ω /kft	11 Ω /km
DC Armor Resistance at 68° F (20℃)	1.34 Ω /kft	4.42 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W1B–8.0 1 × 2.0

Mono Conductor 8.0mm Fluoroplastics Insulation Logging Cable

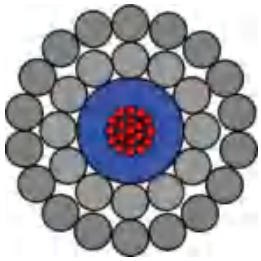


5/16"(8.0mm) Mono Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 14AWG，19 × 0.0145	dia. 0.073 ″	1.85mm
Wall Thickness	dia. 0.0305 ″	0.775 mm
Max Insulation Diameter	dia. 0.134 ″	3.4mm
Inner Armor：12 Wires 0.0452	dia. 0.224 ″	5.7mm
Outer Armor：18 Wires 0.0452	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	198lbs/kft	295kg/km
Weight in Water	164lbs/kft	244kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7875lbs	35kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 16″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	2.62 Ω /kft	9 Ω /km
DC Armor Resistance at 68° F (20℃)	1.34 Ω /kft	4.42 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W1F–8.0 1 × 2.0

Mono Conductor 8.0mm Fluoroplastics Insulation Logging Cable

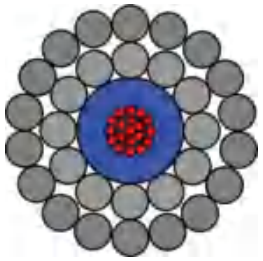


5/16”(8.0mm) Mono Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 14 AWG，19 × 0.0145	dia. 0.073″	1.85mm
Wall Thickness	dia. 0.0305″	0.775 mm
Max Insulation Diameter	dia. 0.134″	3.4mm
Inner Armor：12 Wires 0.0452	dia. 0.224″	5.7mm
Outer Armor：18 Wires 0.0452	dia. 0.315″	8.0mm
Mechanical Parameters		
Weight in Air	198lbs/kft	295kg/km
Weight in Water	164lbs/kft	244kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7875lbs	35kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 16 ″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	2.62 Ω /kft	9 Ω /km
DC Armor Resistance at 68° F (20℃)	1.34 Ω /kft	4.42 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W1F–8.0FL 1 × 1.0

Mono Conductor 8.0mm Fluoroplastics Insulation Anti–sulfur Log–ging Cable



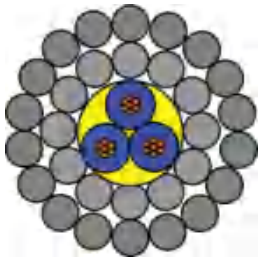
5/16”(8.0mm) Mono Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––Nickel–chromium–molybdenum alloy steel

Construction Parameters	English	Metric
Conductor 18AWG，19 × 0.010	dia. 0.050 ″	1.30mm
Wall Thickness	dia. 0.042 ″	1.05 mm
Max Insulation Diameter	dia. 0.134 ″	3.4mm
Inner Armor：12 Wires 0.0452	dia. 0.224 ″	5.7mm
Outer Armor：18 Wires 0.0452	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	189lbs/kft	282kg/km
Weight in Water	155lbs/kft	231kg/km
Breaking Strength (Ends Fixed)	8000lbs	36kN
Working Load (Maximum)	6000lbs	27kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 16″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	5.48 Ω /kft	18 Ω /km
DC Armor Resistance at 68° F (20℃)	1.34 Ω /kft	4.42 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

Nickel–chromium–molybdenum alloy steel wire

>> W3BP–8.0 3 × 0.5

3 Conductor 8.0mm Polypropylene Insulation Overall Shielding Logging Cable

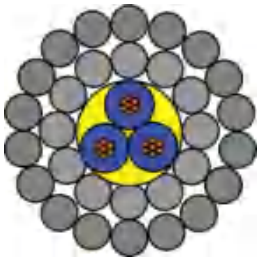


5/16"(8.0mm) 3 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– Polypropylene
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 24 AWG，7 × 0.0118	dia. 0.035 ″	0.90mm
Wall Thickness	dia. 0.020 ″	0.52mm
Max Insulation Diameter	dia. 0.076 ″	1.95mm
Inner Armor：18 Wires 0.0315	dia. 0.228 ″	5.8mm
Outer Armor：18 Wires 0.0433	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	172lbs/kft	256kg/km
Weight in Water	138lbs/kft	205kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7421lbs	33kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 16 ″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	11 Ω /kft	36 Ω /km
DC Armor Resistance at 68° F (20℃)	1.60 Ω /kft	5.27 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	700M Ω · kft	200M Ω · km

>> W3FP–8.0 3 × 0.5

3 Conductor 8.0mm Fluoroplastics Insulation Overall Shielding Log–ging Cable



5/16”(8.0mm) 3 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––High–carbon steel wire

Construction Parameters	English	Metric
Conductor 24 AWG，7 × 0.0118	dia. 0.035 ″	0.90mm
Wall Thickness	dia. 0.020 ″	0.52mm
Max Insulation Diameter	dia. 0.076 ″	1.95mm
Inner Armor：18 Wires 0.0315	dia. 0.228 ″	5.8mm
Outer Armor：18 Wires 0.0433	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	178lbs/kft	266kg/km
Weight in Water	145lbs/kft	215kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7421lbs	33kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 16″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	11 Ω /kft	36 Ω /km
DC Armor Resistance at 68° F (20℃)	1.60 Ω /kft	5.27 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	1640M Ω · kft	500M Ω · km

>> W4BP–8.0 4 × 0.5

4 Conductor 8.0mm PP Insulation Overall Shielding Logging Cable

5/16"(8.0mm) 4 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– PP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 24 AWG，7 × 0.0118	dia. 0.035 ″	0.90mm
Wall Thickness	dia. 0.0165 ″	0.42mm
Max Insulation Diameter	dia. 0.0685 ″	1.74mm
Inner Armor：18 Wires 0.0315	dia. 0.228 ″	5.8mm
Outer Armor：18 Wires 0.0433	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	172lbs/kft	256kg/km
Weight in Water	138lbs/kft	205kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7421lbs	33kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 16 ″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	11 Ω /kft	36 Ω /km
DC Armor Resistance at 68° F (20℃)	1.60 Ω /kft	5.27 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	700M Ω · kft	200M Ω · km

>> W4FP–8.0 4 × 0.5

4 Conductor 8.0mm Fluoroplastics Insulation Overall Shielding Log–ging Cable

5/16”(8.0mm) 4 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 24 AWG，7 × 0.0118	dia. 0.035 ″	0.90mm
Wall Thickness	dia. 0.0165 ″	0.42mm
Max Insulation Diameter	dia. 0.0685 ″	1.74mm
Inner Armor：18 Wires 0.0315	dia. 0.228 ″	5.8mm
Outer Armor：18 Wires 0.0433	dia. 0.315 ″	8.0mm
Mechanical Parameters		
Weight in Air	178lbs/kft	265kg/km
Weight in Water	144lbs/kft	214kg/km
Breaking Strength (Ends Fixed)	10000lbs	45kN
Working Load (Maximum)	7421lbs	33kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 16″	400mm
Outside Diameter	0.315	8.0
Stretch Coefficient	1.2ft/kft/klb	1.35m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	11 Ω /kft	36 Ω /km
DC Armor Resistance at 68° F (20℃)	1.60 Ω /kft	5.27 Ω /km
Capacitance Conductor to Armor	57.9pF/ft	190pF/m
Minimum Insulation Resistance	1640M Ω · kft	500M Ω · km

>> W3BP–11.8 3 × 1.12

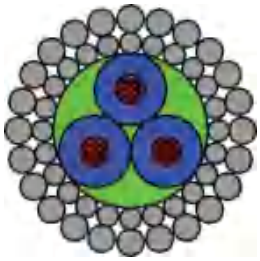
3 Conductor 11.8mm PP Insulation Overall Shielding Logging Cable (For Perforation)

15/32"(11.8mm) 3 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– PP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 16 AWG，7 × 0.00110	dia. 0.055 ″	1.4mm
Wall Thickness	dia. 0.039 ″	0.99mm
Max Insulation Diameter	dia. 0.133 ″	3.38mm
Inner Armor：24 Wires 0.0394	dia. 0.365 ″	9.28mm
Outer Armor：24 Wires 0.0496	dia. 0.464 ″	11.8mm
Mechanical Parameters		
Weight in Air	330lbs/kft	492kg/km
Weight in Water	257lbs/kft	382kg/km
Breaking Strength (Ends Fixed)	17992lbs	80kN
Working Load (Maximum)	13500lbs	60kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 23 ″	590mm
Outside Diameter	0.4645	11.8
Stretch Coefficient	0.7561ft/kft/klb	0.85m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	9.4 Ω /kft	31 Ω /km
DC Armor Resistance at 68° F (20℃)	5.18 Ω /kft	17 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W3FP–11.8 3 × 1.12

3 Conductor 11.8mm Fluoroplastics Insulation Overall Shielding Log–ging Cable (For Perforation)

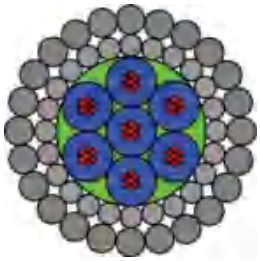


15/32"(11.8mm) 3 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 16 AWG，7 × 0.00110	dia. 0.055 ″	1.4mm
Wall Thickness	dia. 0.039 ″	0.99mm
Max Insulation Diameter	dia. 0.133 ″	3.38mm
Inner Armor：24 Wires 0.0394	dia. 0.365 ″	9.28mm
Outer Armor：24 Wires 0.0496	dia. 0.464 ″	11.8mm
Mechanical Parameters		
Weight in Air	354lbs/kft	528kg/km
Weight in Water	164lbs/kft	244kg/km
Breaking Strength (Ends Fixed)	17992lbs	80kN
Working Load (Maximum)	13500lbs	60kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 23″	590mm
Outside Diameter	0.4645	11.8
Stretch Coefficient	0.7561ft/kft/klb	0.85m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	9.4 Ω /kft	31 Ω /km
DC Armor Resistance at 68° F (20℃)	5.18 Ω /kft	17 Ω /km
Capacitance Conductor to Armor	39.6pF/ft	130pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W7 FP–11.8 7 × 0.56

7 Conductor 11.8mm Fluoroplastics Insulation Overall Shielding Logging Cable

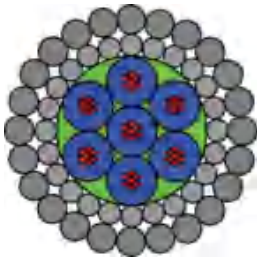


15/32"(11.8mm) 7 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378″	0.96mm
Wall Thickness	dia. 0.0287″	0.73mm
Max Insulation Diameter	dia. 0.095″	2.42mm
Inner Armor：24 Wires 0.0394	dia. 0.365″	9.28mm
Outer Armor：24 Wires 0.0496	dia. 0.464″	11.8mm
Mechanical Parameters		
Weight in Air	354lbs/kft	528kg/km
Weight in Water	164lbs/kft	244kg/km
Breaking Strength (Ends Fixed)	17992lbs	80kN
Working Load (Maximum)	13500lbs	60kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 23″	590mm
Outside Diameter	0.4645	11.8
Stretch Coefficient	0.7561ft/kft/klb	0.85m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.872 Ω /kft	2.82 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	1640M Ω · kft	500M Ω · km

>> W7FPP–11.8FL 7 × 0.56

7 Conductor 11.8mm Fluoroplastics Insulation Overall Shielding Log–ging Cable

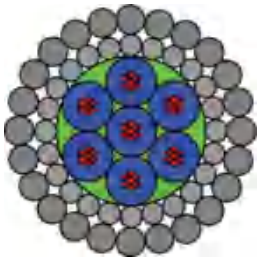


15/32"(11.8mm) 7 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378 ″	0.96mm
Wall Thickness	dia. 0.0287 ″	0.73mm
Max Insulation Diameter	dia. 0.095 ″	2.42mm
Inner Armor：24 Wires 0.0394	dia. 0.365 ″	9.28mm
Outer Armor：24 Wires 0.0496	dia. 0.464 ″	11.8mm
Mechanical Parameters		
Weight in Air	354lbs/kft	528kg/km
Weight in Water	164lbs/kft	244kg/km
Breaking Strength (Ends Fixed)	14393lbs	64kN
Working Load (Maximum)	10795lbs	48kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 23″	590mm
Outside Diameter	0.4645	11.8
Stretch Coefficient	0.7561ft/kft/klb	0.85m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.872 Ω /kft	2.82 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	1640M Ω · kft	500M Ω · km

>> W7BPP–11.8 7 × 0.56

7 Conductor 11.8mm PP Insulation Overall Shielding Logging Cable

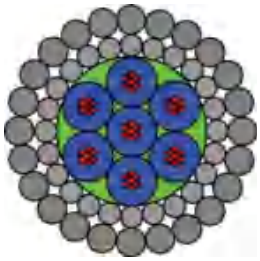


15/32"(11.8mm) 7 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– PP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378″	0.96mm
Wall Thickness	dia. 0.0287″	0.73mm
Max Insulation Diameter	dia. 0.095″	2.42mm
Inner Armor：24 Wires 0.0394	dia. 0.365″	9.28mm
Outer Armor：24 Wires 0.0496	dia. 0.464″	11.8mm
Mechanical Parameters		
Weight in Air	331lbs/kft	494kg/km
Weight in Water	258lbs/kft	348kg/km
Breaking Strength (Ends Fixed)	17992lbs	80kN
Working Load (Maximum)	13500lbs	60kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 23″	590mm
Outside Diameter	0.4645	11.8
Stretch Coefficient	0.7561ft/kft/klb	0.85m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.872 Ω /kft	2.82 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W7BPP–12.7 7 × 0.56

7 Conductor 12.7mm PP Insulation Overall Shielding Logging Cable

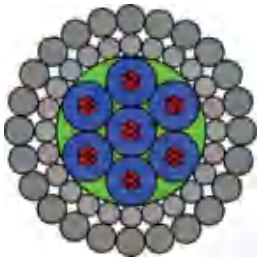


1/2"(12.7mm) 7 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– PP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378″	0.96mm
Wall Thickness	dia. 0.0346″	0.88mm
Max Insulation Diameter	dia. 0.107″	2.72mm
Inner Armor：25 Wires 0.0394	dia. 0.400″	10.18mm
Outer Armor：26 Wires 0.0496	dia. 0.50″	12.7mm
Mechanical Parameters		
Weight in Air	349lbs/kft	520kg/km
Weight in Water	275lbs/kft	410kg/km
Breaking Strength (Ends Fixed)	19000lbs	85kN
Working Load (Maximum)	14168lbs	63kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 23″	590mm
Outside Diameter	0.5	12.5
Stretch Coefficient	0.5961ft/kft/klb	0.67m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.807 Ω /kft	2.65 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W7FP–12.7 7 × 0.56

7 Conductor 12.7mm Fluoroplastics Insulation Overall Shielding Logging Cable

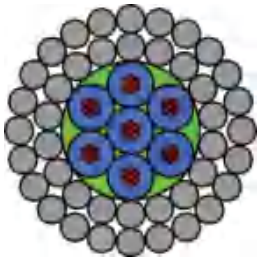


1/2"(12.7mm) 7 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378″	0.96mm
Wall Thickness	dia. 0.0346″	0.88mm
Max Insulation Diameter	dia. 0.107″	2.72mm
Inner Armor：25 Wires 0.0394	dia. 0.400″	10.18mm
Outer Armor：26 Wires 0.0496	dia. 0.50″	12.7mm
Mechanical Parameters		
Weight in Air	349lbs/kft	520kg/km
Weight in Water	275lbs/kft	410kg/km
Breaking Strength (Ends Fixed)	19000lbs	85kN
Working Load (Maximum)	14168lbs	63kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 23″	590mm
Outside Diameter	0.5	12.5
Stretch Coefficient	0.5961ft/kft/klb	0.67m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.807 Ω /kft	2.65 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W7BPP–13.2 7 × 0.56

7 Conductor 13.2mm PP Insulation Overall Shielding Logging Cable

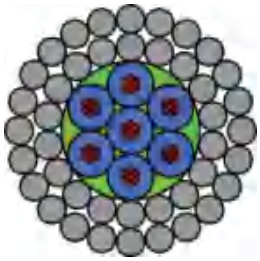


0.52"(13.2mm) 7 Conductor Cable
Temperature Rating 300° F (149℃)
Conductor –– Copper
Insulation–– PP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378″	0.96mm
Wall Thickness	dia. 0.0346″	0.88mm
Max Insulation Diameter	dia. 0.107″	2.72mm
Inner Armor：25 Wires 0.0394	dia. 0.420″	10.68mm
Outer Armor：26 Wires 0.0496	dia. 0.52″	13.2mm
Mechanical Parameters		
Weight in Air	441lbs/kft	657kg/km
Weight in Water	350lbs/kft	520kg/km
Breaking Strength (Ends Fixed)	26988lbs	120kN
Working Load (Maximum)	20241lbs	90kN
Temperature Rating (Maximum)	300° F	149℃
Suggested Minimum Sheave	dia. 26″	660mm
Outside Diameter	0.5	12.5
Stretch Coefficient	0.5781ft/kft/klb	0.65m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.807 Ω /kft	1.93 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km

>> W7FP–13.2 7 × 0.56

7 Conductor 13.2mm Fluoroplastics Insulation Overall Shielding Logging Cable



0.52"(13.2mm) 7 Conductor Cable
Temperature Rating 449° F (232℃)
Conductor –– Copper
Insulation–– FEP
Armor ––GIPS

Construction Parameters	English	Metric
Conductor 18 AWG，7 × 0.0126	dia. 0.0378″	0.96mm
Wall Thickness	dia. 0.0346″	0.88mm
Max Insulation Diameter	dia. 0.107″	2.72mm
Inner Armor：25 Wires 0.0394	dia. 0.420″	10.68mm
Outer Armor：26 Wires 0.0496	dia. 0.52″	13.2mm
Mechanical Parameters		
Weight in Air	465lbs/kft	692kg/km
Weight in Water	369lbs/kft	550kg/km
Breaking Strength (Ends Fixed)	26988lbs	120kN
Working Load (Maximum)	20241lbs	90kN
Temperature Rating (Maximum)	449° F	232℃
Suggested Minimum Sheave	dia. 26″	660mm
Outside Diameter	0.5	12.5
Stretch Coefficient	0.5781ft/kft/klb	0.65m/km/5kN
Electrical Parameters		
Voltage Rating	1,000VDC	1,000VDC
DC Conductor Resistance at 68° F (20℃)	10.3 Ω /kft	34 Ω /km
DC Armor Resistance at 68° F (20℃)	0.807 Ω /kft	1.93 Ω /km
Capacitance Conductor to Armor	48.7pF/ft	160pF/m
Minimum Insulation Resistance	656M Ω · kft	200M Ω · km