

7/32" 224 MONOCONDUCTOR S75 (12/18)

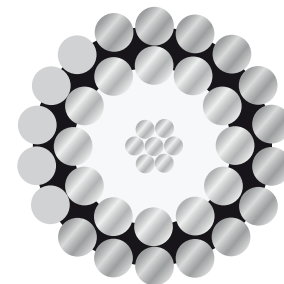
5.69 mm

CONDUCTOR: Copper, Nickel Plated, Water Blocked.

INSULATION: PFA/ETFE.

ARMOR: SUPA 75 (UNS N08926)

Special Seal is applied between armor layers.



| Construction Characteristics | | English | Metric |
|-----------------------------------|------|---------|----------|
| Conductor – # 18 AWG, 7 x 0.0159" | dia. | 0.048" | 1.212 mm |
| Wall Thickness: | | 0.030" | 0.766 mm |
| Insulation - OD: | dia. | 0.108" | 2.743 mm |
| Armor – Inner: 12 wires 0.031" | dia. | 0.162" | 4.115 mm |
| Armor – Outer: 18 wires 0.031" | dia. | 0.224" | 5.690 mm |

| Mechanical Characteristics | | English | Metric |
|---------------------------------------|--------|----------------|---------------|
| Weight in Air | | 96 lb/kft | 143 kg/km |
| Weight in Water | | 81 lb/kft | 121 kg/km |
| Minimum Breaking Strength, Ends Fixed | | 5,000 lbf | 22.24 kN |
| Minimum Wire Break Strength (In/Out) | | 190/190 lbf | 845/845 N |
| Maximum Working Load | | 2,750 lbf | 12.23 kN |
| Temperature Rating (Maximum) | | 500°F | 260°C |
| Suggested Minimum Sheave | dia. | 13" | 330 mm |
| Stretch Coefficient (Nominal) | | 2.2 ft/kft/klb | 2.47 m/km/5kN |
| Outside Diameter | 0.224" | +0.005" | +0.127 mm |
| | | -0.002" | -0.051 mm |

| Electrical Characteristics | | English | | | Metric | | |
|--|--|--------------|--------------|---------------|--------------|--------------|---------------|
| 1ZATK | | | | | | | |
| Temperature Rating | | 1 hr 550° | 8 hr 500° | Cont. 450° | 1 hr 260° | 8 hr 232° | Cont. 204° |
| Voltage Rating | | 1200 VDC | | | 1200 VDC | | |
| D.C. Conductor Resistance at 68° F (20° C) (Maximum) | | 6.2 Ω/kft | | | 20.3 Ω/km | | |
| D.C. Armor Resistance at 68° F (20° C) (Maximum) | | 17.0 Ω/kft | | | 55.8 Ω/km | | |
| Capacitance Conductor to Armor (Maximum) | | 45 pf/ft | | | 148 pf/m | | |
| Insulation Resistance (Minimum) @ 500 VDC | | 1500 MΩ/kft | | | 5000 MΩ/km | | |