751 Old Brandy Road
Culpeper, Virginia 22701

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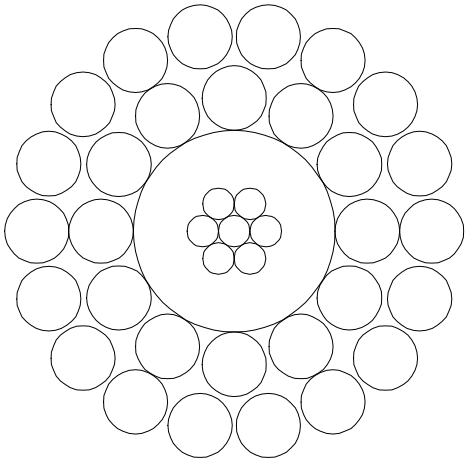
DATALINE®

Description

	mm	Inch
CONDUCTOR #18 AWG, 7/0.0152" (0.39 mm) Nickel-Plated Copper	1.17	0.046
INSULATION - Dual Pass 0.0305" (0.76 mm) Wall PFA/ETFE	2.72	0.107
ARMOR: UNS S31277 (27-7 Mo Alloy)		
Inner: 12/0.031" (0.79 mm)	4.09	0.161
Outer: 18/0.031" (0.79 mm)	5.66	0.223



CABLE CHARACTERISTICS
(Nominal Values @ 20°C)

	Metric	English
PHYSICAL		
Overall Dimensions	5.66 mm	0.223 in
Weight in Air	142 kg/km	95 lb/kft
Weight in Freshwater	121 kg/km	81 lb/kft
Temperature Rating, normal	246°C	475°F
intermittent	260°C	500°F
armor in corrosive (elevated H^2s/Co^2) environment	218°C	425°F
MECHANICAL		
Breaking Strength	21.3 kN	4,800 lbf
Bend Diameter	30 cm	12 in
Elongation (approximate)	0.58 m/km/kN	2.6 ft/kft/klbf
ELECTRICAL		
Voltage Rating	1,200 Vdc	1,200 Vdc
Insulation Resistance @ 500 Vdc	15,000 MΩ•km	50,000 MΩ•kft
dc Resistance		
cdr	25.3 Ω/km	7.7 Ω/kft
armor	73.5 Ω/km	22.4 Ω/kft
Capacitance (cdr - armor)	148 pF/m	45 pF/ft
Velocity of Propagation @ 1 MHz	65%	65%

PROPRIETARY; Use Pursuant to Company Instructions

Tyco Electronics *The Rochester Corporation*

Rochester Stock Type 1-H-226K
(with S31277 (27-7 Mo) Armor)

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04/09/2009	1	C	A216227