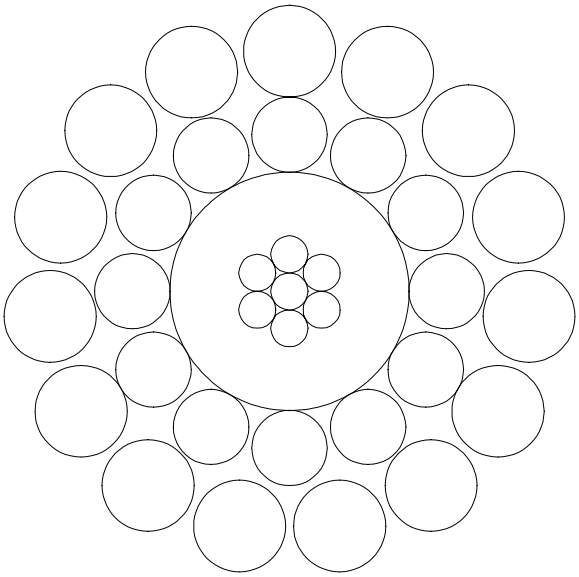
751 Old Brandy Road
Culpeper, Virginia 22701

Tele: 540 825-2111
Fax: 540 825-2238

DATALINE®

Description	mm	Inch
CONDUCTOR #20 AWG, 7/0.0121" (0.32 mm) Nickel-Coated Copper	0.91	0.036
INSULATION 0.0245" (0.62 mm) Wall Sintered PTFE Tape (multi-layered)	2.16	0.085
ARMOR: Special GIPS Wire		
Inner: 12/0.0245" (0.62 mm)	3.23	0.127
Outer: 15/0.030" (0.76 mm)	4.75	0.187



CABLE CHARACTERISTICS (Nominal Values @ 20°C)	Metric	English
PHYSICAL		
Overall Dimensions	4.75 mm	0.187 in
Weight in Air	99 kg/km	66 lb/kft
Weight in Freshwater	84 kg/km	57 lb/kft
Temperature Rating	316°C	600°F
MECHANICAL		
Breaking Strength	16.0 kN	3,600 lbf
Bend Diameter	30 cm	12 in
Elongation (approximate)	0.90 m/km/kN	4.0 ft/kft/klbf
ELECTRICAL		
Voltage Rating	1,000 V	1,000 V
Insulation Resistance @ 500 Vdc	15,000 MΩ•km	50,000 MΩ•kft
dc Resistance		
cdr	41.0 Ω/km	12.5 Ω/kft
armor	20.7 Ω/km	6.3 Ω/kft
Capacitance (cdr – armor)	148 pF/m	45 pF/ft
Velocity of Propagation @ 1 MHz	69%	69%

PROPRIETARY; Use Pursuant to Company Instructions

tyco | Electronics | **The Rochester Corporation**

Rochester Stock Type 1-H-181M
. (Sintered PTFE Tape; 15/12 Armor)

Date	Page	Revision	Part No.
10/25/2002	1	I	A219182