

1. CONDUCTOR

Material: Tin Plated Copper
 Construction: 20 AWG 19/32
 Diameter: 0.038" nom

2. INSULATION

Material: Crosslinked Polyethylene
 Wall thickness: 0.024" nom
 Diameter: 0.086" nom
 Color: Munsell Color Standard

3. PAIRS

Lay: 2.50" nom, L.H.L.
 Diameter: 0.172" nom
 Color: See Table 1

4. CABLE

of Items: Five (5) Pairs and Fillers (F)
 Lay: 5.75" L.H.L. nom
 Diameter: 0.403" nom

5. TAPE SHIELD

Material: 0.0015" Aluminum Polyester
 Coverage: 100%, Foil Facing Out
 (25% Overlap, min)
 Diameter: 0.408" nom

6. DRAIN WIRE

Material: Tin Plated Copper
 Construction: 20 AWG 19/32
 Diameter: 0.038" nom

7. BRAID SHIELD

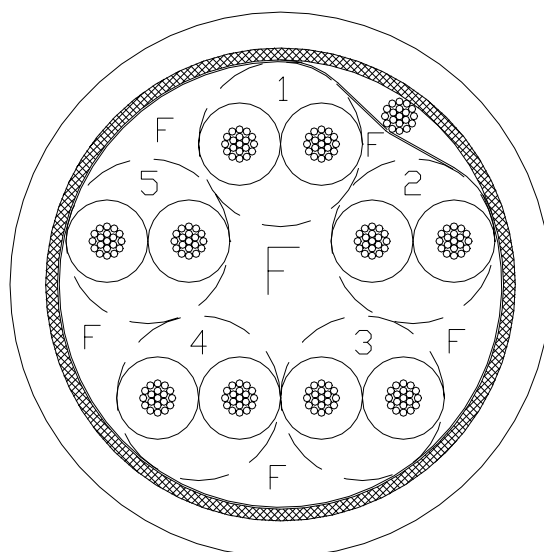
Material: 34 AWG, Tin Plated Copper
 Coverage: 70%, min
 Diameter: 0.433" nom

8. JACKET

Material: Crosslinked Polyethylene
 Wall thickness: 0.028" nom
 Color: Gray
 Diameter: 0.490" ± 0.010"
 Marking: JUDD WIRE 5PR #20 AWG 125C 300V
 ZERO HALOGEN ROHS

9. PHYSICAL CHARACTERISTICS

Temperature rating: 125°C
 Voltage Rating: 300V
 Weight: 144 lbs per 1000', nom



10. PERFORMANCE PROPERTIES

Primary Wire

Mechanical – UL 1581

Tensile Strength

Unaged 1500 psi, min
 Aged (168 hrs @ 158°C) 75% retention, min

Elongation

Unaged 150%, min
 Aged (168 hrs @ 158°C) 60% retention, min

Thermal – UL 758

Cold Bend (1 hr @ -40°C)

No Cracks, Pass Dielectric Test

Electrical – UL 758

Dielectric Withstand I – UL 758

Unaged 60 sec, 60 Hz, 3000 V
 Aged (168 hrs @ 158°C)
 Greater than 50% of average unaged breakdown voltage

Dielectric Withstand II – UL 758

Unaged 60 sec, 60 Hz, 3000 V
 Aged (168 hrs @ 158°C)
 60 sec, 60 Hz, 3000 V

Dielectric Withstand III – UL 758

Conditioned 24 hrs in water
 60 sec, 60 Hz, 3000 V

Spark Test

3000 V_{ac}



JUDD WIRE INC.
 124 Turnpike Road
 Turners Falls, MA 01376
 (413) 863-4357

Date	Rev	By	Appr'd	ECN
11/16/06	---	EJK	FJC	
05/22/07	A	EJK	GBM	07-266
Customer Approval:				

Description: CABLE, 5PR, 20 AWG, 300V, 125°C, ZERO HALOGEN	
Specification Number: M05630	Page: 1 of 2

PERFORMANCE PROPERTIES

Jacket

Mechanical – UL 1581

Tensile Strength

Unaged 1500 psi, min

Aged (168 hrs @ 158°C) 75% retention, min

Elongation

Unaged 150%, min

Aged (168 hrs @ 158°C) 60% retention, min

Electrical – UL 758

Dielectric Withstand 60 Hz, 15 sec, 3000V

Spark Test 3000V_{ac}

Cable

Thermal – UL 758

Cold Bend (1 hr @ -40°C)

No Cracks, Pass Dielectric Test

Flame

VW-1

Electrical

Impedance (@ 1 MHz) 95 Ohms, nom

Capacitance (@ 1 kHz)

Conductor to Conductor 21.0 pf/ft, nom

Conductor to Shield 37.8 pf/ft, nom

11. REFERENCE SPECIFICATION

UL 758

UL 1581

Table 1

Pair	Color	
	Primary 1	Primary 2
1	White	Black
2	White	Brown
3	White	Red
4	White	Orange
5	White	Yellow



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