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PRE REL					
ISS	REVISION & DATE				APPD
A	RELEASED 11/30/04 0009114				RJP

**COAXIAL WIRE:**

**24 AWG COPPER STRANDED SILVER COATED WIRE WITH TEFLON INSULATION, SUPPRESSION LAYER, SHIELDED AND FEP SHEATH (COAXIAL)**

Primary Insulation

The conductor shall be covered with a 0.025 ± .002" thickness of polytetrafluoroethylene (TFE) fluorocarbon, natural-color or white resin compounds. The insulation shall have flame retardant properties sufficient to meet IEEE 383 test requirements for flammability.

1.3 Suppression Layer

The primary insulation shall be covered with a conductive fluorocarbon resin compound, noise suppression layer, colored black.

1.4 Shielding

The shield shall be braid of #38 AWG tinner copper wire with a shielding coverage of 90 percent minimum.

1.5 Outer Covering or Sheath

The sheath shall be a tight fitting 0.009" – 0.012" layer of fluorinated ethylene propylene (REP) fluorocarbon resin compound, black color. The OD of the completed wire shall be 0.121 ± .003" for #24 AWG conductor. The insulation shall have flame retardant properties sufficient to meet IEEE 383 test requirements for flammability.

2.0 ENGINEERING NOTES

2.1 Application

The coaxial wire per this specification was originally established for use as leader on high temperature pH electrodes (31117489 and 31177495). The noise suppression layer construction consists of a high temperature fluorocarbon resin impregnated with a conductive material to reduce triboelectric effect.

2.2 Electrical Characteristics


Nominal capacitance between conductor and shield:  
at 1 kHz = 29.5 pF/ft.

Insulation Resistance (conductor to shield):  
1X10<sup>12</sup> ohm (minimum)

Continuous Temperature Rating:  
130°C

 FOR RELEASE APPROVALS SEE ECO # 0009114.

**NOTES:**

	DRAWN	WF	102804	<b>Honeywell</b>		
	CHECKED					
	DEV ENG			WIRE, COAXIAL 24 AWG		
	MFG ENG					
	QA ENG					
	TOLERANCE UNLESS NOTED				<b>A/A4</b>	<b>31835023</b>
ANGULAR DIMENSION				SCALE NONE		