

SINGLE PAIR/TRIAD SHIELDED ELECTRONIC 300 VOLT PLTC INSTRUMENT WIRE

<p>APPLICATION: This product is UL Listed as power limited tray cable for cable tray installations in NEC Class I, Division 2 and with restrictions in Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating.</p> <p>CONSTRUCTION SPECIFICATIONS:</p> <p>Conductor 7 strand concentric bare copper, Class B Primary Insulation 15 mils nominal, 105°C PVC No. of Conductors 2 Color Code Black and White and Red for triad Lay of Twist 2" nominal Shield 1.27 mil aluminum Mylar* tape shield and an 18 gauge 7 strand tinned copper drain wire Jacket Black FR PVC</p>	
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Technical Information

Product Dimensions

Gauge Size AWG	No. of Cond.	Jacket Thickness Mils	Overall Diameter Nominal / Maximum		Minimum Bend Radius		Maximum Pulling Tension		Net Weight	
			Inches	mm	Inches	mm	lb	kg	lb/k ft	kg/km
16	2	35	.252/.287	6.40/7.29	1-3/4	44	54	24	41.7	62.0
16	3	35	.264/.302	6.71/7.67	1-7/8	48	75	34	53.0	78.9

Product Characteristics

Physical Characteristics	Test Method	Primary Insulation	Outer Jacket
Temperature Rating	UL Subject 13	105°C	
Density gm/cm ³ (Nominal)	ASTM D 1505	1.36	1.40
Tensile Strength (Min. PSI @ 72°F)	UL Subject 13	2500	2000
Ultimate Elongation (Min. % @ 72°F)	UL Subject 13	17.2 MPa	13.8 MPa
		200	200
Air Oven Aging (7 days at 136°C)	UL Subject 13		
% retained tensile		70	
% retained elongation		65	
(7 days at 121°C)	UL Subject 13		
% retained tensile			70
% retained elongation			45
Limiting O ₂ Index (% O ₂ Min.)	ASTMD-2863		27
Flammability			
Singles - Vertical & Horizontal	UL Subject 83 & 13	Pass	
Cable Tray - Ribbon Burner	UL Subject 13		Pass
Cold Bend (72 hrs. @ -20°C)	UL Subject 13	No Cracks	No Cracks
Minimum Recommended Installation Temperature		-10°C	-10°C
Dielectric Constant (Max.) 24Hrs. @ 75°C	UL Subject 83	10	
Insulation Resistance Constant [Min. @ 15.6°C (60°F)]	UL Subject 13	3000	

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved. *Dupont Trademark.