

## MULTIPLE PAIRS SHIELDED INDIVIDUAL AND OVERALL SHIELDS ELECTRONIC 300 VOLT PLTC INSTRUMENT CABLE

<p><b>APPLICATION:</b> This product is UL Listed as power limited tray cable under NEC 725 with a 300-volt rating. It can be installed Class I, Division 2 and Class II, Division 2 hazardous areas. Some restrictions apply in Class II, Division 2 hazardous areas. Some restrictions apply in Class II, Division 2 areas.</p>		
<p><b>CONSTRUCTION SPECIFICATIONS:</b></p> <p>Conductor: 7 strand concentric bare copper, Class B          Primary Insulation: 15 mils nominal, 105°C PVC          No. of Conductors per group: 2</p> <p>Group ID: Each pair numbered          Color Code: Black and White          Lay of Twist: 2"          Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape          Overall Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 7 strand tinned copper drain wire.          Jacket: Black FR PVC, thickness depending on cable size per chart below          Communications Wire: 22 gauge copper. Color coded orange</p>		

### Technical Information

#### Product Dimensions

Gauge Size AWG	No. of Pairs	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
20	2	40	0.360/0.399	9.14/10.5	3.65	93.0	92	42	70.0	104
20	4	50	0.435/0.483	11.05/12.27	3	74.0	99	45	101.8	151
20	8	50	0.543/0.598	3.79/15.19	3-5/8	91.0	185	84	162.4	242
20	12	60	0.670/0.741	17.02/18.82	4-1/2	114.0	261	118	243.1	362
20	24	70	0.900/1.016	23.37/25.81	6-1/8	155.0	529	240	443.0	659
18	2	45	0.370/0.430	9.39/10.92	4.65	118.0	187	85	130.0	193
18	4	50	0.460/0.500	11.68/12.70	3	76.2	111	50	108.3	161
18	8	50	0.580/0.620	14.73/15.75	3-1/2	89.0	215	97	172.5	257
18	12	60	0.710/0.760	18.03/19.30	4-1/2	114.3	319	145	264.0	393
18	24	70	0.995/1.045	25.27/26.54	5-3/4	146.0	630	286	462.2	688

#### Product Characteristics

Physical Characteristics	Test Method	Primary Insulation	Outer Jacket
Temperature Rating	UL Subject 13	105°C	
Density gm/cm <sup>3</sup> (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
Air Oven Aging (7 days at 136°C)	UL Subject 13	200	200
% retained tensile		70	
% retained elongation		65	
Air Oven Aging (7 days at 121°C)	UL Subject 13		70
% retained tensile			45
% retained elongation			
Limiting O <sub>2</sub> Index (% O <sub>2</sub> Min.)	ASTM D-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.) 24 hrs. @ 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.