

UL PLTC ARMoured FIELDBUS/PROFIBUS PA, 300V

Fieldbus is the Process Industries digital replacement for analog 4-20mA transmission of process variables. Depending mainly on the current requirement of each device, up to 32 sensors and actuators are possible on a Fieldbus link with a maximum transmission distance of 1900m.

VOLTAGE

300 V

PRODUCT CONSTRUCTION

Insulation:

- FR XLPE (VW-1 rated)
rated: 60°C wet/105°C dry

Shielding (foil-free edge):

- ISOS (standard)
- OS (optional)

Armour:

- Aluminum Interlocked Armour (AIA) (standard)
- Steel Interlocked Armour (SIA) (optional)
- Braided Armor for Shipboard (ABS) approval (optional)
- Zetabon (optional)

Jacket:

- FR PVC outer orange jacket (standard for Fieldbus)
- rated: 90°C to -40°C
- FR PVC outer purple jacket (standard for Profibus)
- rated: 90°C to -40°C
- Black with integral orange stripe (optional)
- Blue for Intrinsically Safe applications
- Thermoset CPE (optional)
- Thermoplastic CPE (optional)
- Thermoplastic LSZH (optional)

Available in:

- Custom insulation/jacket colours
- Green bonding conductor
- LSZH jacket
- Marine/shipboard cable types

CERTIFICATION/COMPLIANCES

- Foundation Fieldbus Spec. FF-844, Type "A",H1
- UL 13, Power Limited Tray Cable (PLTC)
- UL 2250, Instrumentation Tray Cable (ITC)
- UL 44, Thermoset Insulated Wires and Cables
- UL 1685/FT4, Vertical Tray Flame Test rated
- IEEE 1202/383 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (RW90 rated), 90°C wet/ 105°C dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- 40°C cold bend/impact rated
- Rated for use in hazardous locations:
 - Class I Zone 0 (Intrinsically Safe cables only)
 - Class I Zone 2 (Div 2)

COLOR CODING

- Black and white (standard)

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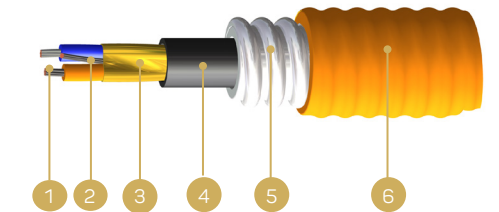
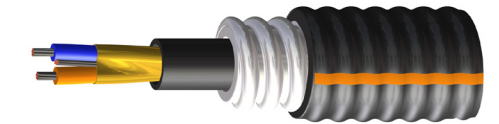
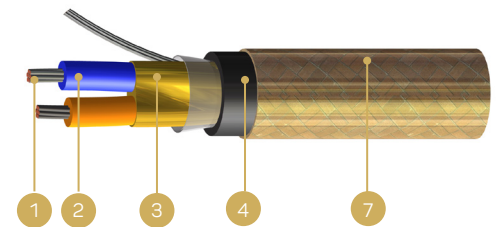
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300 V

VOLTAGE

UL Type PLTC

FIELDBUS/PROFIBUS PA



1. Stranded Tinned Copper Pairs
2. FR XLPE (VW-1 Rated) Insulated Pairs (standard)
3. Individual Aluminum/Mylar Shield with Drain Wire Over Each Pair
4. FR PVC Inner Protective Jacket
5. Aluminum Interlocked Armor (AIA)
6. FR PVC Outer Protective Jacket
7. Braided Armor

STANDARDS:



 SHAWCOR

PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE	OD Over Inner Jacket	NORMAL DIAMETERS		CABLE WEIGHT	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
				OVER ARMOUR	OVERALL CABLE			
		(AWG/MCM)	(in/mm)	(in/mm)	(in/mm)	(lbs/1000ft) (kg/km)	(lb/kg)	(in/mm)
2F621U160105700	1	16	0.357 / 9.07	0.597 / 15.16	0.709 / 18.01	202 / 301	41 / 19	12.8 / 324
2F622U160205700	2	16	0.557 / 14.16	0.797 / 20.25	0.909 / 23.1	337 / 502	82 / 37	16.4 / 416
2F622U160405700	4	16	0.672 / 17.08	0.912 / 23.17	1.024 / 26.02	446 / 663	165 / 75	18.4 / 468
2F622U160605700	6	16	0.807 / 20.49	1.011 / 25.67	1.123 / 28.52	571 / 850	247 / 112	20.2 / 513
2F622U160805700	8	16	0.877 / 22.27	1.081 / 27.45	1.193 / 30.29	668 / 994	330 / 150	21.5 / 545
2F622U161205700	12	16	1.092 / 27.73	1.296 / 32.92	1.408 / 35.76	917 / 1365	494 / 224	25.3 / 644
2F622U161605700	16	16	1.22 / 30.99	1.424 / 36.17	1.536 / 39.01	1104 / 1643	659 / 299	27.6 / 702
2F622U162405700	24	16	1.541 / 39.14	1.745 / 44.33	1.877 / 47.68	1595 / 2373	989 / 449	33.8 / 858
2F621U180105700	1	18	0.313 / 7.95	0.553 / 14.05	0.665 / 16.89	176 / 261	26 / 12	12 / 304
2F622U180205700	2	18	0.485 / 12.31	0.725 / 18.41	0.837 / 21.25	281 / 418	52 / 24	15.1 / 383
2F622U180405700	4	18	0.564 / 14.33	0.804 / 20.43	0.916 / 23.27	346 / 515	104 / 47	16.5 / 419
2F622U180605700	6	18	0.696 / 17.68	0.936 / 23.78	1.048 / 26.62	458 / 681	156 / 71	18.9 / 479
2F622U180805700	8	18	0.754 / 19.16	0.994 / 25.26	1.106 / 28.1	526 / 783	208 / 94	19.9 / 506
2F622U181205700	12	18	0.937 / 23.81	1.141 / 28.99	1.253 / 31.83	698 / 1039	312 / 142	22.6 / 573
2F622U181805700	18	18	1.102 / 27.99	1.306 / 33.17	1.418 / 36.02	906 / 1348	468 / 212	25.5 / 648
2F622U182405700	24	18	1.315 / 33.41	1.519 / 38.59	1.631 / 41.43	1158 / 1723	624 / 283	29.4 / 746

FOR FURTHER INFORMATION, PLEASE CONTACT:

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