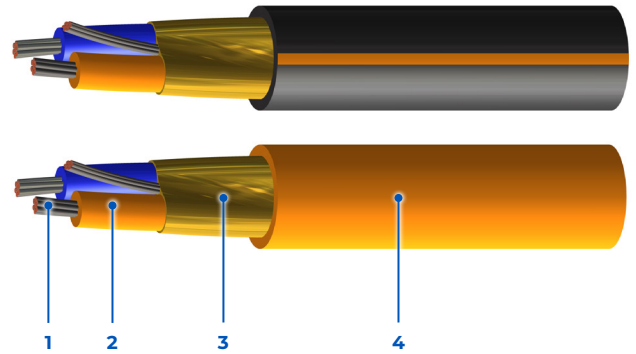


# UL Type PLTC / ITC Unarmored Tray Fieldbus/Profibus PA, 300 V

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.

## Standards:

PLTC / ITC-ER



1 – Stranded Tin-coated 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 Outer Protective Jacket

## Product Construction

### Insulation:

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

### Shielding (foil-free edge):

- ISOS (standard)
- OS (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 colors
- PLTC/ITC-ER with CPE jackets

## 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 (optional)
- IEEE 1202/383 (70,000 BTU/hr), Vertical Flame Test rated (optional)
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- UV sunlight resistant "SUN RES" (all colors)

- Direct burial rated (optional)
- -40°C cold bend rated
- Rated for use in hazardous locations:
  - Class I Zone 0 (Intrinsically Safe cables only)
  - Class I Zone 2 (Div 2)

## Color Coding

- Blue and Orange conductors (standard)

# 300 V

Voltage

# UL Type PLTC / ITC

Fieldbus/Profibus PA

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PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE <i>(AWG/kcmil)</i>	NOMINAL DIAMETER OVERALL CABLE <i>(in/mm)</i>	CABLE WEIGHT <i>(lbs/1000ft) (kg/km)</i>	MAX PULLING TENSION (PULLING EYE) <i>(lb/kg)</i>	MIN BEND RADIUS (PULL) <i>(in/mm)</i>
2F021U160105700	1	16	0.357 / 9.1	66 / 98	41 / 19	6.4 / 163
2F022U160205700	2	16	0.557 / 14.2	149 / 222	82 / 37	10 / 255
2F022U160405700	4	16	0.672 / 17.1	230 / 342	165 / 75	12.1 / 307
2F022U160605700	6	16	0.807 / 20.5	330 / 491	247 / 112	14.5 / 369
2F022U160805700	8	16	0.877 / 22.3	410 / 610	330 / 150	15.8 / 401
2F022U161205700	12	16	1.092 / 27.7	607 / 903	494 / 224	19.7 / 499
2F022U161605700	16	16	1.220 / 31.0	762 / 1134	659 / 299	22 / 558
2F022U162405700	24	16	1.541 / 39.1	1139 / 1695	989 / 449	27.7 / 705
2F021U180105700	1	18	0.313 / 8.0	49 / 73	26 / 12	5.6 / 143
2F022U180205700	2	18	0.485 / 12.3	111 / 165	52 / 24	8.7 / 222
2F022U180405700	4	18	0.564 / 14.3	157 / 233	104 / 47	10.2 / 258
2F022U180605700	6	18	0.696 / 17.7	236 / 351	156 / 71	12.5 / 318
2F022U180805700	8	18	0.754 / 19.2	291 / 432	208 / 94	13.6 / 345
2F022U181205700	12	18	0.937 / 23.8	425 / 633	312 / 142	16.9 / 429
2F022U181805700	18	18	1.102 / 28.0	593 / 882	468 / 212	19.8 / 504
2F022U182405700	24	18	1.315 / 33.4	793 / 1180	624 / 283	23.7 / 601