

UNITRONIC® 300 TP

Multi-Pair, Unshielded

300V Flexible Industrial Signal and Control Cable



The UNITRONIC® 300 Series of signal and control cables have been carefully engineered to provide the highest performance and ease of installation in industrial signal and control applications. Available shielding options provide EMC protection in the harshest industrial environments.

Recommended Applications:

RS-232, Data buses, Process Instrumentation, Low voltage control interconnect.

Application Advantages:

- Extended temperature rating of -25°C to +105°C
- Flexible design for ease of routing
- Suitable for use in cable tray
- Oil and UV resistant (Oil Res I)
- Sequential foot marking for ease of installation
- All items available from inventory in 100, 500, and 1,000 ft. put ups

UNITRONIC® 300 TP Construction:

Finely stranded tinned copper conductors; PVC blended insulation; oil resistant gray PVC jacket.

Control Cable (20 AWG - 18 AWG)

UNITRONIC® 300 TP (UL) TYPE CMG or PLTC 105°C CSA CMG or AWM II A/B 300V RoHS



Signal Cable (24 AWG* - 22 AWG)

UNITRONIC® 300 TP (UL) TYPE CMG or PLTC 105°C CSA CMG or AWM II A/B 300V RoHS



| Cable Attributes, See Page 653 | | | Availability: | | Complete the installation with: | | | |
|--------------------------------|--------------------------|--|---------------------------------|--|---------------------------------|-------------------------------------|--|-------------------------------|
| | Oil Resistance: OR-02 | | Flame Resistance: FR-03 | | | SKINTOP® Strain Relief: Page 486 | | EPIC® Connectors: Page 251 |
| | Motion Type: FL-01 | | Mechanical Properties: MP-03 | | | OLFLEX® Tubing: Page 546 | | Assemblies: Page 627 |

Technical Data:

- | | |
|--|--|
| Minimum Bending Radius - with shield: 6 x cable diameter | Color Code: 24 AWG & 22 AWG: Chart 14, Page 677 20 AWG & 18 AWG: Chart 13, Page 677 |
| Temperature Range: -25°C to +105°C | Approvals: UL: - CMG, PLTC*, Exposed Run** - AWM 2464 Oil Res I CSA: - CMG/FT4 - AWM II A/B |
| Nominal Voltage: 300V | |
| Test Voltage: 2000V | |
| Conductor Stranding: Class 5 | * 24 AWG not PLTC ** Exposed Run for 18 AWG & 16 AWG (22 & 20 AWG Available) Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only) |

| Part Number | Number of Pairs | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | Approx. Weight lbs/mft | kg/km | Part Number | Number of Pairs | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | Approx. Weight lbs/mft | kg/km |
|-------------------------------------|-----------------|-------------------------------|------|-----------------------|------------------------|-------|-------------------------------------|-----------------|-------------------------------|------|-----------------------|------------------------|-------|
| 24 AWG (19/36) 0.25 mm ² | | | | | | | 20 AWG (19/32) 0.75 mm ² | | | | | | |
| 302401TP | 1 | .154 | 3.9 | 3 | 13 | 19 | 302001TP | 1 | .205 | 5.2 | 8 | 38 | 57 |
| 302402TP | 2 | .231 | 5.9 | 6 | 18 | 27 | 302002TP | 2 | .345 | 8.8 | 15 | 50 | 74 |
| 302403TP | 3 | .243 | 6.2 | 9 | 23 | 34 | 302003TP | 3 | .365 | 9.3 | 23 | 65 | 97 |
| 302406TP | 6 | .320 | 8.1 | 18 | 44 | 66 | 302006TP | 6 | .492 | 12.5 | 46 | 130 | 194 |
| 302409TP | 9 | .368 | 9.3 | 27 | 60 | 90 | 302009TP | 9 | .571 | 14.5 | 69 | 180 | 268 |
| 302415TP | 15 | .471 | 12.0 | 45 | 88 | 131 | 302015TP | 15 | .729 | 18.5 | 113 | 282 | 419 |
| 22 AWG (19/34) 0.34 mm ² | | | | | | | 18 AWG (19/30) 1.00 mm ² | | | | | | |
| 302201TP | 1 | .165 | 4.2 | 5 | 15 | 22 | 301801TP | 1 | .221 | 5.6 | 12 | 41 | 61 |
| 302202TP | 2 | .252 | 6.4 | 9 | 22 | 33 | 301802TP | 2 | .376 | 9.6 | 24 | 53 | 79 |
| 302203TP | 3 | .266 | 6.8 | 14 | 31 | 46 | 301803TP | 3 | .419 | 10.6 | 36 | 69 | 103 |
| 302206TP | 6 | .352 | 8.9 | 28 | 56 | 84 | 301806TP | 6 | .540 | 13.7 | 73 | 146 | 217 |
| 302209TP | 9 | .426 | 10.8 | 42 | 80 | 119 | 301809TP | 9 | .648 | 16.5 | 110 | 219 | 326 |
| 302215TP | 15 | .520 | 13.2 | 71 | 118 | 175 | 301815TP | 15 | .803 | 20.4 | 182 | 363 | 540 |