

UNITRONIC® FD P



Multi-Conductor, Unshielded

250V PUR, Continuous Flex, Industrial Communication Cable

The UNITRONIC® FD P series of communication cables are designed for continuous flexing in industrial signal and bus applications. Tear and abrasion resistant polyurethane jacket provides superior service life in harsh environments with outstanding resistance to most oils, solvents and coolants.

Recommended Applications:

High Speed Automated Equipment, Robotics, CNC, Multi-Axis cutting equipment.

Application Advantage:

- Designed for high flexing applications up to 8 million flex life cycles
- Flexible construction for ease of routing in tight spaces
- Outstanding oil, solvent and coolant resistance
- Round geometry facilitates liquid-tight installation per IP 67 or NEMA 6

UNITRONIC® FD P Construction:

Finely stranded bare copper conductors; specially blended polyolefin insulation; dry lubricant; non-wicking textile wrap; specially formulated gray polyurethane jacket for a halogen-free construction.

LAPP KABEL STUTTGART UNITRONIC®-FD P plus (UL) CMX- c(UL) CMX 75°C



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|---|--|--|---|
| Cable Attributes, See Page 653 Oil Resistance: OR-05 Motion Type: CF-01 Flame Resistance: FR-02 Mechanical Properties: MP-05 | | Availability: Standard put-ups are 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length. | Complete the installation with: SKINTOP® Strain Relief: Page 486 OLDFLEX® Tubing: Page 546 EPIC® Connectors: Page 251 OLDFLEX® Track: Page 612 |
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Technical Data:

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| Minimum Bending Radius for continuous flexing: 7.5 x cable diameter | Conductor Stranding: Super fine wire, per VDE 0295, Class 6 |
| Temperature Range: -40°C to +75°C | Color Code: DIN 47100, Chart 8, Page 674 |
| Working Voltage: 250V | Approvals: UL: Type CMX CSA: Type CMX |
| Test Voltage: 1500V | |

| Part Number | Number of Conductors | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | kg/km | Part Number | Number of Conductors | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | kg/km |
|-------------------------------------|----------------------|-------------------------------|------|-----------------------|-------|-------------------------------------|----------------------|-------------------------------|------|-----------------------|-------|
| 26 AWG (18/38) 0.14 mm ² | | | | | | 22 AWG (42/38) 0.34 mm ² | | | | | |
| 0028850 | 3 | .161 | 4.1 | 3 | 17 | 0028867 | 2 | .193 | 4.9 | 5 | 22 |
| 0028851 | 4 | .173 | 4.4 | 4 | 20 | 0028868 | 3 | .205 | 5.2 | 7 | 28 |
| 0028852 | 5 | .185 | 4.7 | 5 | 23 | 0028869 | 4 | .224 | 5.7 | 9 | 37 |
| 0028853 | 7 | .213 | 5.4 | 7 | 32 | 0028870 | 5 | .244 | 6.2 | 11 | 42 |
| 0028854 | 10 | .252 | 6.4 | 9 | 40 | 0028871 | 7 | .280 | 7.1 | 16 | 54 |
| 0028855 | 14 | .256 | 6.5 | 13 | 50 | 0028872 | 10 | .346 | 8.8 | 23 | 74 |
| 0028856 | 18 | .280 | 7.1 | 17 | 58 | 0028873 | 14 | .350 | 8.9 | 32 | 97 |
| 0028857 | 25 | .339 | 8.6 | 24 | 81 | 0028874 | 18 | .394 | 10.0 | 41 | 118 |
| 24 AWG (32/38) 0.25 mm ² | | | | | | 0028875 | 25 | .484 | 12.3 | 57 | 161 |
| 0028858 | 2 | .177 | 4.5 | 3 | 18 | | | | | | |
| 0028859 | 3 | .185 | 4.7 | 5 | 22 | | | | | | |
| 0028860 | 4 | .201 | 5.1 | 7 | 26 | | | | | | |
| 0028861 | 5 | .220 | 5.6 | 8 | 33 | | | | | | |
| 0028862 | 7 | .252 | 6.4 | 12 | 41 | | | | | | |
| 0028863 | 10 | .303 | 7.7 | 17 | 54 | | | | | | |
| 0028864 | 14 | .307 | 7.8 | 24 | 69 | | | | | | |
| 0028865 | 18 | .346 | 8.8 | 30 | 84 | | | | | | |
| 0028866 | 25 | .425 | 10.8 | 42 | 115 | | | | | | |