

FLEX-UL-CY

PVC, UL/CSA/CE, Shielded, 300/500V (600V UL)



FLEX-UL-CY is a PVC, flexible, oil resistant, overall shielded, multi-conductor power and control cable designed for use in electrical equipment in dry, damp or wet conditions. Especially designed for the North American market by carrying UL and CSA approvals. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Due to the tinned copper braiding, **FLEX-UL-CY** cables are suitable for interference-free data and signal transmissions in signal and control applications where greater electromagnetic compatibility is required. Outdoor installation is not permitted.

Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- PVC outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- Oil-resistant to EN 50363-4-1
- *Extremely oil & chemical resistant*

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C (90° UL)
- Static temp: -40° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 2587 VW-1
- UL AWM Style 1012
- CSA AWM I A/B, II A/B FT1
- CE Low Voltage Directive 2014/35/EU
- ROHS compliant

| PART NUMBER | | CORES | NOMINAL OD (in) | NOMINAL OD (mm) | CU LBS/ MFT | WT LBS/ MFT |
|--|----|-------|--------------------|--------------------|----------------|----------------|
| 21 AWG (16/32) 0,50mm² | | | | | | |
| 1412103 | | 3 | 0.319" | 8.1mm | 28 | 67 |
| 1412104 | | 4 | 0.335" | 8.5mm | 30 | 77 |
| 1412105 | | 5 | 0.358" | 9.1mm | 37 | 93 |
| 1412107 | | 7 | 0.394" | 10.0mm | 43 | 107 |
| 1412112 | | 12 | 0.500" | 12.7mm | 73 | 182 |
| 1412118 | | 18 | 0.587" | 14.9mm | 100 | 247 |
| 1412125 | | 25 | 0.669" | 17.0mm | 133 | 317 |
| 19 AWG (24/32) 0,75mm² | | | | | | |
| 1411903 | | 3 | 0.339" | 8.6mm | 34 | 81 |
| 1411904 | | 4 | 0.362" | 9.2mm | 38 | 92 |
| 1411905 | | 5 | 0.398" | 10.1mm | 46 | 112 |
| 1411907 | | 7 | 0.425" | 10.8mm | 59 | 133 |
| 1411912 | | 12 | 0.547" | 13.9mm | 103 | 223 |
| 1411918 | | 18 | 0.634" | 16.1mm | 137 | 299 |
| 1411925 | | 25 | 0.740" | 18.8mm | 182 | 406 |
| 1411934 | | 34 | 0.866" | 22.0mm | 231 | 542 |
| 18 AWG (32/32) 1,00mm² | | | | | | |
| 1411802 | OZ | 2 | 0.335" | 8.5mm | 32 | 78 |
| 1411803 | | 3 | 0.346" | 8.8mm | 38 | 82 |
| 1411804 | | 4 | 0.366" | 9.3mm | 46 | 99 |
| 1411805 | | 5 | 0.402" | 10.2mm | 52 | 116 |
| 1411807 | | 7 | 0.433" | 11.0mm | 67 | 139 |
| 1411812 | | 12 | 0.575" | 14.6mm | 119 | 245 |
| 1411818 | | 18 | 0.669" | 17.0mm | 168 | 338 |
| 1411825 | | 25 | 0.764" | 19.4mm | 211 | 447 |
| 1411834 | | 34 | 0.898" | 22.8mm | 276 | 609 |
| 1411841 | | 41 | 0.811" | 20.6mm | 264 | 543 |
| 16 AWG (30/30) 1,50mm² | | | | | | |
| 1411602 | OZ | 2 | 0.354" | 9.0mm | 37 | 86 |



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FLEX-UL-CY Sizes Continued. (12 AWG & Larger)

| PART NUMBER | CORES | NOMINAL OD (in) | NOMINAL OD (mm) | CU LBS/ MFT | WT LBS/ MFT |
|--|-------|--------------------|--------------------|----------------|----------------|
| 1411603 | 3 | 0.366" | 9.3mm | 49 | 99 |
| 1411604 | 4 | 0.402" | 10.2mm | 55 | 117 |
| 1411605 | 5 | 0.445" | 11.3mm | 72 | 146 |
| 1411607 | 7 | 0.465" | 11.8mm | 94 | 178 |
| 1411612 | 12 | 0.610" | 15.5mm | 161 | 302 |
| 1411618 | 18 | 0.728" | 18.5mm | 247 | 441 |
| 1411625 | 25 | 0.854" | 21.7mm | 294 | 577 |
| 1411634 | 34 | 0.961" | 24.4mm | 396 | 776 |
| 1411641 | 41 | 0.941" | 23.9mm | 396 | 617 |
| 14 AWG (50/30) 2,50mm² | | | | | |
| 1411403 | 3 | 0.413" | 10.5mm | 72 | 137 |
| 1411404 | 4 | 0.457" | 11.6mm | 92 | 167 |
| 1411405 | 5 | 0.504" | 12.8mm | 115 | 213 |
| 1411407 | 7 | 0.551" | 14.0mm | 151 | 261 |
| 1411412 | 12 | 0.709" | 18.0mm | 247 | 424 |
| 1411418 | 18 | 0.831" | 21.1mm | 344 | 601 |
| 1411425 | 25 | 0.969" | 24.6mm | 457 | 805 |
| 12 AWG (56/28) 4,00mm² | | | | | |
| 1411203 | 3 | 0.512" | 13.0mm | 133 | 192 |
| 1411204 | 4 | 0.559" | 14.2mm | 148 | 241 |
| 1411205 | 5 | 0.614" | 15.6mm | 178 | 288 |
| 10 AWG (84/28) 6,00mm² | | | | | |
| 1411003 | 3 | 0.591" | 15.0mm | 156 | 255 |
| 1411004 | 4 | 0.642" | 16.3mm | 201 | 307 |
| 1411005 | 5 | 0.709" | 18.0mm | 267 | 376 |
| 8 AWG (80/26) 10,0mm² | | | | | |
| 1410804 | 4 | 0.787" | 20.0mm | 371 | 488 |
| 1410805 | 5 | 0.882" | 22.4mm | 447 | 607 |
| 6 AWG (128/26) 16,0mm² | | | | | |
| 1410604 | 4 | 1.110" | 28.2mm | 536 | 790 |
| 1410605 | 5 | 1.130" | 28.7mm | 729 | 943 |
| 4 AWG (200/26) 25,0mm² | | | | | |
| 1410404 | 4 | 1.122" | 28.5mm | 781 | 1348 |
| 1410405 | 5 | 1.339" | 34.0mm | 1209 | 2144 |
| 2 AWG (280/26) 35,0mm² | | | | | |
| 1410204 | 4 | 1.248" | 31.7mm | 1128 | 1811 |



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FLEX-UL-CY Sizes Continued. (1 AWG & Larger)

| PART NUMBER | CORES | NOMINAL OD (in) | NOMINAL OD (mm) | CU LBS/ MFT | WT LBS/ MFT |
|---|-------|--------------------|--------------------|----------------|----------------|
| 1 AWG (400/26) 50,0mm² | | | | | |
| 1410104 | 4 | 1.562" | 39.7mm | 1571 | 2255 |
| 2/0 AWG (356/24) 70,0mm² | | | | | |
| 1412004 | 4 | 1.763" | 44.8mm | 2166 | 3012 |
| 3/0 AWG (485/24) 95,0mm² | | | | | |
| 1413104 | 4 | 1.968" | 50.0mm | 2689 | 3714 |
| 4/0 AWG (614/24) 120,0mm² | | | | | |
| 1414104 | 4 | 2.413" | 61.3mm | 3362 | 4668 |

