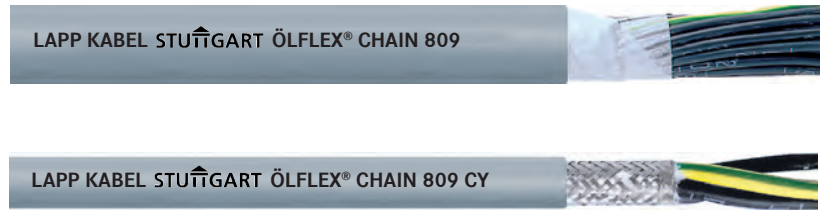


ÖLFLEX® CHAIN 809/809 CY

Continuous flex control cable with PVC jacket



ÖLFLEX® CHAIN 809 is a flexible multi-conductor cable designed for basic continuous flexing applications. ÖLFLEX® CHAIN 809 CY is a shielded version available with an overall tinned copper braid. This is recommended when electrical interference needs to be suppressed. For bending cycles and operation parameters, see www.lappusa.com/cf-rating.

Unshielded construction

Conductors: finely stranded bare copper
Insulation: PVC; dry lubricant; non-woven wrapping over outer layer
Jacket: PVC; gray

Shielded construction

Conductors: finely stranded bare copper
Insulation: PVC; dry lubricant; non-woven wrapping over outer layer
Shielding: tinned copper braid (85% coverage)
Jacket: PVC; gray

Recommended applications

Cable tracks; power chains; gantry robots; pick and place units; conveyor systems; machine tools; basic continuous flexing applications

Application advantage

- Designed with North American and European approvals
- Reduced-diameter shielded design
- Flame retardant: UL/CSA VW-1, FT 1

Approvals



| Cable attributes | | page 648 | |
|------------------|-------|----------|-------|
| OIL | OR-01 | FLAME | FR-02 |
| MOTION | CF-01 | MECH. | MP-01 |

| Complete the installation | |
|---------------------------|----------|
| SKINTOP® strain relief | page 492 |
| EPIC® connectors | page 284 |

| ÖLFLEX® CONNECT solution | |
|--------------------------|----------|
| ÖLFLEX® CONNECT CHAIN | page 617 |

Technical data

| | | | |
|-----------------------------|---|-----------------------------|--|
| Minimum bend radius: | - for continuous flexing: 10 x cable diameter | Test voltage: | - conductor/conductor: 4000V |
| | - sliding applications: 12 x cable diameter | | - conductor/shield: 2000V |
| Temperature range: | - for continuous flexing: 0°C to +80°C | Conductor stranding: | Class 5 fine wire |
| | - for stationary use: -40°C to +80°C | Color code: | black with white numbers, plus green/yellow ground |
| Nominal voltage: | - UL/CSA: 1000V | Approvals: | UL: AWM 20886 |
| | - VDE U ₀ /U: 300/500V | | Attributes: NFPA 79 |
| | | | Canada: cRU AWM I/II A/B FT 1 |
| | | | Additional: CE & RoHS |
| | | | based on VDE 0281 Part 13 |

ÖLFLEX® CHAIN 809

| Part number | Number of conductors incl. ground* | Nominal outer diameter | | Copper weight lbs/mft | Approx. weight lbs/mft | SKINTOP® SL PG thread |
|-------------------------------------|------------------------------------|------------------------|------|-----------------------|------------------------|-----------------------|
| | | in | mm | | | |
| 20 AWG (0.5 mm²) | | | | | | |
| 1026700 | 2 | 0.205 | 5.2 | 7 | 27 | S1107 |
| 1026701 | 3 | 0.217 | 5.5 | 10 | 32 | S1107 |
| 1026702 | 4 | 0.236 | 6.0 | 13 | 39 | S1107 |
| 1026703 | 5 | 0.256 | 6.5 | 16 | 45 | S1109 |
| 1026704 | 7 | 0.303 | 7.7 | 23 | 59 | S1111 |
| 1026705 | 12 | 0.362 | 9.2 | 39 | 91 | S1111 |
| 1026706 | 18 | 0.433 | 11.0 | 58 | 131 | S1113 |
| 1026707 | 25 | 0.524 | 13.3 | 81 | 184 | S1116 |
| 19 AWG (0.75 mm²) | | | | | | |
| 1026708 | 2 | 0.220 | 5.6 | 10 | 33 | S1107 |
| 1026709 | 3 | 0.236 | 6.0 | 15 | 40 | S1107 |
| 1026710 | 4 | 0.256 | 6.5 | 19 | 49 | S1109 |
| 1026711 | 5 | 0.280 | 7.1 | 25 | 58 | S1111 |
| 1026712 | 7 | 0.335 | 8.5 | 34 | 79 | S1111 |
| 1026713 | 12 | 0.406 | 10.3 | 58 | 122 | S1113 |
| 1026714 | 18 | 0.480 | 12.2 | 87 | 174 | S1116 |
| 1026715 | 25 | 0.583 | 14.8 | 122 | 244 | S1121 |
| 18 AWG (1 mm²) | | | | | | |
| 1026716 | 2 | 0.232 | 5.9 | 13 | 39 | S1107 |
| 1026717 | 3 | 0.248 | 6.3 | 19 | 48 | S1109 |

* 2c cable does not include ground

| Part number | Number of conductors incl. ground* | Nominal outer diameter | | Copper weight lbs/mft | Approx. weight lbs/mft | SKINTOP® SL PG thread |
|------------------------------------|------------------------------------|------------------------|------|-----------------------|------------------------|-----------------------|
| | | in | mm | | | |
| 1026718 | 4 | 0.272 | 6.9 | 26 | 59 | S1109 |
| 1026719 | 5 | 0.295 | 7.5 | 32 | 70 | S1111 |
| 1026720 | 7 | 0.354 | 9.0 | 45 | 95 | S1111 |
| 1026721 | 12 | 0.429 | 10.9 | 77 | 149 | S1113 |
| 1026722 | 18 | 0.520 | 13.2 | 116 | 218 | S1116 |
| 1026723 | 25 | 0.618 | 15.7 | 161 | 299 | S1121 |
| 16 AWG (1.5 mm²) | | | | | | |
| 1026724 | 2 | 0.256 | 6.5 | 19 | 50 | S1109 |
| 1026725 | 3 | 0.272 | 6.9 | 29 | 62 | S1109 |
| 1026726 | 4 | 0.299 | 7.6 | 39 | 77 | S1111 |
| 1026727 | 5 | 0.335 | 8.5 | 48 | 93 | S1111 |
| 1026728 | 7 | 0.406 | 10.3 | 68 | 127 | S1113 |
| 1026729 | 12 | 0.484 | 12.3 | 116 | 198 | S1116 |
| 1026730 | 18 | 0.584 | 14.9 | 174 | 288 | S1121 |
| 1026731 | 25 | 0.705 | 17.9 | 242 | 401 | S1129 |
| 14 AWG (2.5 mm²) | | | | | | |
| 1026732 | 3 | 0.331 | 8.4 | 48 | 97 | S1111 |
| 1026733 | 4 | 0.366 | 9.3 | 65 | 120 | S1111 |
| 1026734 | 7 | 0.500 | 12.7 | 81 | 146 | S1116 |
| 12 AWG (4 mm²) | | | | | | |
| 1026737 | 4 | 0.437 | 11.1 | 108 | 179 | S1113 |

ÖLFLEX® CHAIN 809 CY

| Part number | Number of conductors incl. ground* | Nominal outer diameter | | Copper weight lbs/mft | Approx. weight lbs/mft | SKINTOP® MS-SC PG thread |
|-------------------------------------|------------------------------------|------------------------|------|-----------------------|------------------------|--------------------------|
| | | in | mm | | | |
| 20 AWG (0.5 mm²) | | | | | | |
| 1026751 | 2 | 0.228 | 5.8 | 24 | 30 | 53112210 |
| 1026752 | 3 | 0.240 | 6.1 | 29 | 40 | 53112210 |
| 1026753 | 4 | 0.260 | 6.6 | 33 | 56 | 53112210 |
| 1026754 | 5 | 0.280 | 7.1 | 38 | 65 | 53112210 |
| 1026755 | 7 | 0.335 | 8.5 | 46 | 91 | 53112220 |
| 1026756 | 12 | 0.394 | 10.0 | 70 | 134 | 53112230 |
| 1026757 | 18 | 0.465 | 11.8 | 95 | 185 | 53112240 |
| 1026758 | 25 | 0.555 | 14.1 | 142 | 235 | 53112250 |
| 19 AWG (0.75 mm²) | | | | | | |
| 1026759 | 2 | 0.244 | 6.2 | 29 | 38 | 53112210 |
| 1026760 | 3 | 0.260 | 6.6 | 35 | 47 | 53112210 |
| 1026761 | 4 | 0.280 | 7.1 | 41 | 64 | 53112210 |
| 1026762 | 5 | 0.303 | 7.7 | 48 | 87 | 53112220 |
| 1026763 | 7 | 0.358 | 9.1 | 60 | 113 | 53112220 |
| 1026764 | 12 | 0.429 | 10.9 | 93 | 156 | 53112230 |
| 1026765 | 18 | 0.512 | 13.0 | 142 | 212 | 53112240 |
| 1026766 | 25 | 0.614 | 15.6 | 188 | 292 | 53112250 |
| 18 AWG (1 mm²) | | | | | | |
| 1026767 | 2 | 0.256 | 6.5 | 34 | 56 | 53112210 |
| 1026768 | 3 | 0.272 | 6.9 | 42 | 74 | 53112210 |

* 2c cable does not include ground

| Part number | Number of conductors incl. ground* | Nominal outer diameter | | Copper weight lbs/mft | Approx. weight lbs/mft | SKINTOP® MS-SC PG thread |
|------------------------------------|------------------------------------|------------------------|------|-----------------------|------------------------|--------------------------|
| | | in | mm | | | |
| 1026769 | 4 | 0.295 | 7.5 | 50 | 87 | 53112220 |
| 1026770 | 5 | 0.327 | 8.3 | 59 | 105 | 53112220 |
| 1026771 | 7 | 0.386 | 9.8 | 75 | 129 | 53112230 |
| 1026772 | 12 | 0.461 | 11.7 | 124 | 192 | 53112240 |
| 1026773 | 18 | 0.551 | 14.0 | 180 | 265 | 53112250 |
| 1026774 | 25 | 0.657 | 16.7 | 238 | 327 | 53112250 |
| 16 AWG (1.5 mm²) | | | | | | |
| 1026775 | 2 | 0.280 | 7.1 | 44 | 65 | 53112210 |
| 1026776 | 3 | 0.295 | 7.5 | 55 | 84 | 53112220 |
| 1026777 | 4 | 0.331 | 8.4 | 67 | 111 | 53112220 |
| 1026778 | 5 | 0.358 | 9.1 | 80 | 130 | 53112220 |
| 1026779 | 7 | 0.429 | 10.9 | 103 | 165 | 53112230 |
| 1026780 | 12 | 0.524 | 13.3 | 180 | 245 | 53112240 |
| 1026781 | 18 | 0.618 | 15.7 | 251 | 372 | 53112250 |
| 1026782 | 25 | 0.736 | 18.7 | 356 | 493 | 53112260 |
| 14 AWG (2.5 mm²) | | | | | | |
| 1026783 | 3 | 0.354 | 9.0 | 79 | 126 | 53112220 |
| 1026784 | 4 | 0.398 | 10.1 | 99 | 159 | 53112230 |
| 1026785 | 7 | 0.531 | 13.5 | 170 | 228 | 53112240 |
| 12 AWG (4 mm²) | | | | | | |
| 1026788 | 4 | 0.469 | 11.9 | 167 | 205 | 53112240 |



800.633.6339
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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values.