

OLFLEX® FD CLASSIC 810/ 810 CY



Flexible Continuous Flex Control Cable

OLFLEX® FD CLASSIC 810 is a flexible, multi-conductor cable designed for continuous flex applications. It is specially designed to optimize flex life and provides excellent resistance to mineral oils, synthetic oils and water based coolants. OLFLEX® FD CLASSIC 810 CY is a shielded version available with an overall tinned copper braid.

Application Advantage:

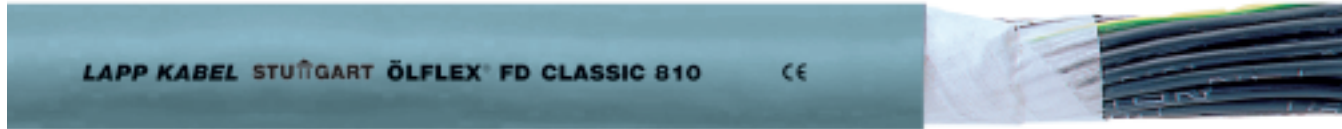
- For continuous flexing applications with small bending radius down to 7.5 x OD
- A European version with CE Approval
- Number coded conductors for easier installation

Recommended Applications:

Cable tracks, Gantry robots, Pick and place units, Conveyor systems, Machine tools, Automated handling equipment and Other continuous flexing applications.

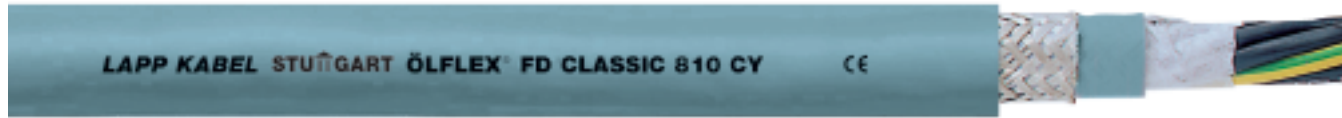
OLFLEX® FD CLASSIC 810 Construction:










Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; conductors cabled with non-wicking textile wrap over outer layer; specially formulated oil resistant gray PVC jacket.










OLFLEX® FD CLASSIC 810 CY Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; conductors cabled with non-wicking textile wrap; gray inner PVC jacket; tinned copper braid (85% coverage); specially formulated oil resistant gray PVC jacket.



| Cable Attributes, See Page 653 | | Availability: | Complete the installation with: | |
|---|--|---|---|--|
|  Oil Resistance: OR-1 |  Flame Resistance: FR-02 |  Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length. |  SKINTOP® Strain Relief: Page 486 |  EPIC® Connectors: Page 251 |
|  Motion Type: CF-01 |  Mechanical Properties: MP-01 | |  OLFLEX® Tubing: Page 546 |  SKINTOP® MS-SC Page 486 |

Technical Data:

| | |
|--|--|
|  Minimum Bending Radius - for continuous flexing: 7.5 x cable diameter - with shield: 10 x cable diameter |  Conductor Stranding: Extra Fine Wire per VDE 0295, Class 6, IEC 228 Cl.6 |
|  Temperature Range: - for flexible use: 0°C to +70°C - for stationary use: -40°C to +80°C |  Color Code: Black with white numbers, plus green/yellow ground |
|  Nominal Voltage: 300/500V |  Approvals: Based on VDE Specifications |
|  Test Voltage: 4000V | |

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OLFLEX® FD CLASSIC 810: Flexible Continuous Flex Control Cable

| Part Number | Number of Conductors includes ground | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | Approx. Weight lbs/mft | kg/km | Part Number | Number of Conductors includes ground | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | Approx. Weight lbs/mft | kg/km |
|-------------------------------------|--------------------------------------|-------------------------------|------|-----------------------|------------------------|-------|--------------------------------------|--------------------------------------|-------------------------------|------|-----------------------|------------------------|-------|
| 21 AWG (28/34) 0.50 mm ² | | | | | | | 0026142 41 .835 21.2 265 478 712 | | | | | | |
| 0026100 | 2 | .228 | 5.8 | 7 | 27 | 40 | 0026143 | 50 | .902 | 22.9 | 323 | 574 | 854 |
| 0026101 | 3 | .244 | 6.2 | 10 | 32 | 48 | 16 AWG (84/34) 1.50 mm ² | | | | | | |
| 0026102 | 4 | .268 | 6.8 | 13 | 39 | 58 | 0026149 | 2 | .287 | 7.3 | 19 | 50 | 74 |
| 0026103 | 5 | .287 | 7.3 | 16 | 45 | 67 | 0026150 | 3 | .311 | 7.9 | 29 | 62 | 93 |
| 0026104 | 7 | .335 | 8.5 | 23 | 59 | 88 | 0026151 | 4 | .339 | 8.6 | 39 | 77 | 114 |
| 0026105 | 12 | .394 | 10.0 | 39 | 91 | 136 | 0026152 | 5 | .378 | 9.6 | 48 | 93 | 139 |
| 0026106 | 18 | .472 | 12.0 | 58 | 131 | 195 | 0026153 | 7 | .453 | 11.5 | 68 | 127 | 189 |
| 0026107 | 25 | .587 | 14.9 | 81 | 184 | 274 | 0026154 | 12 | .531 | 13.5 | 116 | 198 | 295 |
| 0026109 | 34 | .642 | 16.3 | 110 | 241 | 359 | 0026156 | 18 | .642 | 16.3 | 174 | 288 | 429 |
| 0026110 | 50 | .756 | 19.2 | 161 | 346 | 515 | 0026157 | 25 | .787 | 20.0 | 242 | 401 | 597 |
| 19 AWG (42/34) 0.75 mm ² | | | | | | | 0026159 34 .854 21.7 329 526 783 | | | | | | |
| 0026119 | 2 | .244 | 6.2 | 10 | 33 | 49 | 14 AWG (140/34) 2.50 mm ² | | | | | | |
| 0026120 | 3 | .264 | 6.7 | 15 | 40 | 60 | 0026170 | 3 | .374 | 9.5 | 48 | 97 | 145 |
| 0026121 | 4 | .287 | 7.3 | 19 | 49 | 73 | 0026171 | 4 | .413 | 10.5 | 65 | 120 | 179 |
| 0026122 | 5 | .311 | 7.9 | 25 | 58 | 86 | 0026172 | 5 | .465 | 11.8 | 81 | 146 | 218 |
| 0026123 | 7 | .370 | 9.4 | 34 | 79 | 117 | 0026173 | 7 | .559 | 14.2 | 113 | 204 | 303 |
| 0026124 | 12 | .441 | 11.2 | 58 | 122 | 181 | 0026174 | 12 | .657 | 16.7 | 194 | 318 | 473 |
| 0026125 | 16 | .496 | 12.6 | 78 | 157 | 234 | 0026175 | 14 | .705 | 17.9 | 226 | 368 | 548 |
| 0026126 | 18 | .524 | 13.3 | 87 | 174 | 259 | 12 AWG (224/34) 4 mm ² | | | | | | |
| 0026127 | 25 | .626 | 15.9 | 122 | 244 | 363 | 0026180 | 3 | .441 | 11.2 | 81 | 144 | 214 |
| 0026128 | 26 | .626 | 15.9 | 126 | 251 | 374 | 0026181 | 4 | .484 | 12.3 | 108 | 179 | 266 |
| 0026129 | 30 | .650 | 16.5 | 220 | 280 | 416 | 0026182 | 5 | .539 | 13.7 | 134 | 218 | 325 |
| 18 AWG (56/34) 1.00 mm ² | | | | | | | 10 AWG (192/32) 6 mm ² | | | | | | |
| 0026130 | 2 | .260 | 6.6 | 13 | 39 | 58 | 0026183 | 4 | .571 | 14.5 | 150 | 266 | 396 |
| 0026131 | 3 | .280 | 7.1 | 19 | 48 | 72 | 0026184 | 5 | .638 | 16.2 | 194 | 325 | 484 |
| 0026132 | 4 | .307 | 7.8 | 26 | 59 | 88 | 8 AWG (320/32) 10 mm ² | | | | | | |
| 0026133 | 5 | .335 | 8.5 | 32 | 70 | 104 | 0026185 | 4 | .720 | 18.3 | 258 | 433 | 644 |
| 0026134 | 7 | .398 | 10.1 | 45 | 95 | 142 | 0026186 | 5 | .799 | 20.3 | 323 | 527 | 785 |
| 0026135 | 12 | .472 | 12.0 | 77 | 148 | 221 | 6 AWG (512/32) 16 mm ² | | | | | | |
| 0026138 | 18 | .571 | 14.5 | 116 | 218 | 324 | 0026187 | 4 | .835 | 21.2 | 413 | 619 | 922 |
| 0026139 | 25 | .701 | 17.8 | 161 | 299 | 445 | 0026188 | 5 | .933 | 23.7 | 516 | 761 | 1133 |

OLFLEX® FD CLASSIC 810 CY: Shielded Flexible Continuous Flex Control Cable

| Part Number | Number of Conductors includes ground | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | Approx. Weight lbs/mft | kg/km | Part Number | Number of Conductors includes ground | Nominal Outer Diameter inches | mm | Copper Weight lbs/mft | Approx. Weight lbs/mft | kg/km |
|-------------------------------------|--------------------------------------|-------------------------------|------|-----------------------|------------------------|-------|--------------------------------------|--------------------------------------|-------------------------------|------|-----------------------|------------------------|-------|
| 21 AWG (28/34) 0.50 mm ² | | | | | | | 0026242 41 .937 23.8 364 617 918 | | | | | | |
| 0026200 | 2 | .291 | 7.4 | 22 | 50 | 74 | 0026244 | 65 | 1.150 | 29.2 | 575 | 939 | 1398 |
| 0026201 | 3 | .307 | 7.8 | 26 | 56 | 84 | 16 AWG (84/34) 1.50 mm ² | | | | | | |
| 0026202 | 4 | .331 | 8.4 | 31 | 66 | 98 | 0026249 | 2 | .350 | 8.9 | 39 | 79 | 117 |
| 0026203 | 5 | .350 | 8.9 | 36 | 74 | 110 | 0026250 | 3 | .374 | 9.5 | 50 | 93 | 139 |
| 0026204 | 7 | .406 | 10.3 | 47 | 96 | 143 | 0026251 | 4 | .409 | 10.4 | 61 | 114 | 169 |
| 0026205 | 12 | .469 | 11.9 | 67 | 135 | 201 | 0026252 | 5 | .453 | 11.5 | 75 | 135 | 201 |
| 0026206 | 18 | .551 | 14.0 | 103 | 193 | 287 | 0026253 | 7 | .524 | 13.3 | 97 | 176 | 262 |
| 0026207 | 25 | .677 | 17.2 | 136 | 265 | 394 | 0026254 | 12 | .622 | 15.8 | 166 | 271 | 404 |
| 19 AWG (42/34) 0.75 mm ² | | | | | | | 0026256 18 .728 18.5 234 376 560 | | | | | | |
| 0026219 | 2 | .307 | 7.8 | 26 | 57 | 85 | 0026257 | 25 | .886 | 22.5 | 335 | 533 | 793 |
| 0026220 | 3 | .327 | 8.3 | 32 | 67 | 99 | 0026259 | 34 | .965 | 24.5 | 470 | 675 | 1005 |
| 0026221 | 4 | .350 | 8.9 | 40 | 78 | 116 | 0026262 | 50 | 1.142 | 29.0 | 645 | 967 | 1439 |
| 0026222 | 5 | .374 | 9.5 | 46 | 89 | 133 | 14 AWG (140/34) 2.50 mm ² | | | | | | |
| 0026223 | 7 | .445 | 11.3 | 60 | 120 | 178 | 0026270 | 3 | .449 | 11.4 | 80 | 139 | 207 |
| 0026224 | 12 | .512 | 13.0 | 87 | 170 | 253 | 0026271 | 4 | .488 | 12.4 | 108 | 166 | 247 |
| 0026225 | 16 | .583 | 14.8 | 125 | 228 | 339 | 0026272 | 5 | .543 | 13.8 | 130 | 206 | 307 |
| 0026226 | 18 | .610 | 15.5 | 138 | 247 | 368 | 0026273 | 7 | .650 | 16.5 | 176 | 281 | 418 |
| 0026227 | 25 | .736 | 18.7 | 182 | 333 | 496 | 12 AWG (224/34) 4 mm ² | | | | | | |
| 0026228 | 26 | .736 | 18.7 | 187 | 341 | 507 | 0026280 | 3 | .512 | 13.0 | 126 | 191 | 285 |
| 0026229 | 30 | .736 | 18.7 | 215 | 369 | 549 | 0026281 | 4 | .563 | 14.3 | 160 | 242 | 360 |
| 18 AWG (56/34) 1.00 mm ² | | | | | | | 0026282 5 .630 16.0 188 293 436 | | | | | | |
| 0026230 | 2 | .323 | 8.2 | 31 | 65 | 97 | 10 AWG (192/32) 6 mm ² | | | | | | |
| 0026231 | 3 | .343 | 8.7 | 38 | 77 | 114 | 0026283 | 4 | .661 | 16.8 | 214 | 345 | 514 |
| 0026232 | 4 | .370 | 9.4 | 47 | 90 | 134 | 0026284 | 5 | .724 | 18.4 | 276 | 413 | 614 |
| 0026233 | 5 | .406 | 10.3 | 54 | 107 | 159 | 8 AWG (320/32) 10 mm ² | | | | | | |
| 0026234 | 7 | .472 | 12.0 | 74 | 139 | 207 | 0026285 | 4 | .819 | 20.8 | 350 | 554 | 824 |
| 0026235 | 12 | .551 | 14.0 | 122 | 211 | 314 | 0026286 | 5 | .898 | 22.8 | 480 | 660 | 983 |
| 0026238 | 18 | .661 | 16.8 | 171 | 298 | 443 | 6 AWG (512/32) 16 mm ² | | | | | | |
| 0026239 | 25 | .795 | 20.2 | 245 | 411 | 612 | 0026287 | 4 | .937 | 23.8 | 524 | 811 | 1207 |
| 0026241 | 34 | .870 | 22.1 | 311 | 529 | 787 | 0026288 | 5 | 1.059 | 26.9 | 706 | 1011 | 1505 |