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AUTOMATION AND MOTOR SUPPLY CABLES

# FLEXICS® CHAIN 99111C

PP/PUR drag chain cable, screened



## TECHNICAL DATA



**Standard**  
Based on VDE 0285



**Test Voltage**  
4000 V / 50 Hz



**Rated Voltage**  
300/500 V (U<sub>0</sub>/U)



**Bending cycles**  
5 million



**Bending radius (min.)**  
Fixed installation: 5 x  $\varnothing$  of cable  
Flexible use: 7.5 x  $\varnothing$  of cable



**Fire properties**  
EN 60332-1-2: self-extinguishing and flame retardant



**Core identification**  
Black (continuously numbered), from 3 cores with green/yellow ground conductor



**Temperature range**  
Fixed installation: -50°C up to 80°C  
Flexible use: -30°C up to 80°C

## DESIGN



1 Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228



2 Core insulation of polypropylene compound (PP)



3 Cores stranded in layers with short lay-lengths



4 Non-woven wrapping over each stranding layer



5 Inner sheath of thermoplastic elastomer compound (TPE)



6 Tinned copper wire braiding



7 Non-woven wrapping over braiding



8 Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

| Number of cores x nominal cross-section (mm²) | Outer diameter appr. (mm) | Cu-value (kg/km) | Total weight appr. (kg/km) |
|-----------------------------------------------|---------------------------|------------------|----------------------------|
| 2 x 0.5                                       | 6.9                       | 33               | 68                         |
| 3 G 0.5                                       | 7.3                       | 39               | 79                         |
| 4 G 0.5                                       | 7.9                       | 46               | 94                         |
| 5 G 0.5                                       | 8.5                       | 54               | 105                        |
| 7 G 0.5                                       | 9.8                       | 70               | 138                        |
| 12 G 0.5                                      | 11.5                      | 100              | 192                        |
| 18 G 0.5                                      | 13.4                      | 153              | 282                        |
| 25 G 0.5                                      | 15.9                      | 202              | 386                        |
| 2 x 0.75                                      | 7.3                       | 39               | 80                         |
| 3 G 0.75                                      | 7.8                       | 48               | 91                         |
| 4 G 0.75                                      | 8.4                       | 59               | 112                        |
| 5 G 0.75                                      | 9.0                       | 69               | 124                        |
| 7 G 0.75                                      | 10.7                      | 90               | 166                        |
| 12 G 0.75                                     | 12.5                      | 129              | 251                        |
| 18 G 0.75                                     | 14.9                      | 205              | 352                        |
| 25 G 0.75                                     | 17.4                      | 271              | 470                        |
| 2 x 1                                         | 7.7                       | 46               | 92                         |
| 3 G 1                                         | 8.2                       | 57               | 101                        |
| 4 G 1                                         | 8.9                       | 70               | 129                        |
| 5 G 1                                         | 9.8                       | 81               | 152                        |
| 7 G 1                                         | 11.4                      | 110              | 196                        |
| 12 G 1                                        | 13.4                      | 182              | 298                        |
| 18 G 1                                        | 16.1                      | 254              | 426                        |
| 25 G 1                                        | 18.8                      | 365              | 585                        |
| 36 G 1                                        | 24.3                      | 516              | 895                        |
| 41 G 1                                        | 26.1                      | 610              | 1032                       |
| 50 G 1                                        | 28.4                      | 690              | 1160                       |
| 65 G 1                                        | 32.2                      | 852              | 1660                       |
| 2 x 1.5                                       | 8.4                       | 58               | 112                        |
| 3 G 1.5                                       | 9.0                       | 75               | 133                        |
| 4 G 1.5                                       | 9.9                       | 91               | 160                        |
| 5 G 1.5                                       | 10.9                      | 112              | 188                        |
| 7 G 1.5                                       | 12.7                      | 145              | 251                        |
| 12 G 1.5                                      | 15.2                      | 247              | 377                        |
| 18 G 1.5                                      | 17.8                      | 348              | 534                        |
| 25 G 1.5                                      | 21.2                      | 498              | 768                        |
| 36 G 1.5                                      | 26.4                      | 702              | 1210                       |
| 42 G 1.5                                      | 28.4                      | 829              | 1441                       |
| 50 G 1.5                                      | 31.2                      | 1025             | 1709                       |
| 3 G 2.5                                       | 11.0                      | 119              | 196                        |
| 4 G 2.5                                       | 11.9                      | 161              | 233                        |
| 5 G 2.5                                       | 13.2                      | 194              | 293                        |
| 7 G 2.5                                       | 15.8                      | 262              | 399                        |
| 12 G 2.5                                      | 20.4                      | 410              | 582                        |



| Number of cores x nominal cross-section (mm²) | Outer diameter appr. (mm) | Cu-value (kg/km) | Total weight appr. (kg/km) |
|-----------------------------------------------|---------------------------|------------------|----------------------------|
| 18 G 2.5                                      | 24.0                      | 562              | 989                        |
| 25 G 2.5                                      | 28.2                      | 778              | 1382                       |
| 4 x 4                                         | 13.7                      | 238              | 348                        |
| 5 G 4                                         | 15.3                      | 280              | 420                        |
| 7 G 4                                         | 20.0                      | 352              | 651                        |
| 4 G 6                                         | 16.1                      | 318              | 499                        |
| 7 G 6                                         | 23.0                      | 528              | 844                        |
| 4 G 10                                        | 22.5                      | 485              | 1052                       |
| 5 G 10                                        | 24.7                      | 610              | 1096                       |
| 7 G 10                                        | 29.3                      | 820              | 1530                       |
| 4 G 16                                        | 25.7                      | 840              | 1386                       |
| 5 G 16                                        | 28.2                      | 1050             | 1759                       |

## CONTACT PERSON

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