



We Make Modern  
Life Possible

AUTOMATION AND MOTOR SUPPLY CABLES

# FLEXICS® CHAIN UL/c(UL)

UL recognized PVC/PVC drag chain cable,  
unscreened



## TECHNICAL DATA



**Standard**  
Based on VDE 0285



**Certificate**  
UL AWM 20886  
CSA C22.2 No. 210-11, AWM



**Test Voltage**  
4000 V / 50 Hz



**Rated Voltage**  
300/500 V (U<sub>0</sub>/U)  
1000 V (UL/CSA)



**Bending cycles**  
3 million



**Bending radius (min.)**  
Fixed installation: 7.5 x Ø of cable  
Flexible use: 10 x Ø of cable



**Fire properties**  
EN 60332-1-2: self-extinguishing and flame  
retardant  
UL: vertical flame test VW-1 cable flame test  
CSA: FT1



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



**Temperature range**  
Fixed installation: -30°C up to 80°C  
Flexible use: -5°C up to 70°C

## DESIGN



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



2 Core insulation of special compound based on polyvinyl chloride (PVC)



3 Cores stranded in layers with short lay-lengths



4 Non-woven wrapping over each stranding layer



5 Outer sheath of special compound based on polyvinyl chloride (PVC), 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                                       | 5.5                       | 9.7              | 42                         |
| 3 G 0.5                                       | 5.9                       | 14.4             | 52                         |
| 4 G 0.5                                       | 6.6                       | 19               | 60                         |
| 5 G 0.5                                       | 7.2                       | 24               | 72                         |
| 7 G 0.5                                       | 8.7                       | 33.6             | 106                        |
| 12 G 0.5                                      | 10.5                      | 58               | 150                        |
| 18 G 0.5                                      | 12.5                      | 86               | 231                        |
| 25 G 0.5                                      | 15.0                      | 120              | 316                        |
| 2 x 0.75                                      | 6.1                       | 14.4             | 51                         |
| 3 G 0.75                                      | 6.6                       | 21.6             | 63                         |
| 4 G 0.75                                      | 7.3                       | 29               | 75                         |
| 5 G 0.75                                      | 8.0                       | 36               | 90                         |
| 7 G 0.75                                      | 9.6                       | 50               | 132                        |
| 12 G 0.75                                     | 11.6                      | 86               | 201                        |
| 18 G 0.75                                     | 13.9                      | 130              | 300                        |
| 25 G 0.75                                     | 16.6                      | 180              | 415                        |
| 2 x 1                                         | 6.4                       | 19.2             | 58                         |
| 3 G 1                                         | 7.0                       | 29               | 72                         |
| 4 G 1                                         | 7.8                       | 38.4             | 88                         |
| 5 G 1                                         | 8.5                       | 48               | 106                        |
| 7 G 1                                         | 10.3                      | 67               | 159                        |
| 12 G 1                                        | 12.4                      | 115              | 237                        |
| 18 G 1                                        | 15.1                      | 173              | 358                        |
| 25 G 1                                        | 18.3                      | 240              | 536                        |
| 2 x 1.5                                       | 7.0                       | 28.8             | 72                         |
| 3 G 1.5                                       | 7.7                       | 43               | 93                         |
| 4 G 1.5                                       | 8.8                       | 58               | 122                        |
| 5 G 1.5                                       | 9.6                       | 72               | 147                        |
| 7 G 1.5                                       | 11.6                      | 101              | 219                        |
| 12 G 1.5                                      | 13.9                      | 173              | 322                        |
| 18 G 1.5                                      | 16.9                      | 259              | 478                        |
| 25 G 1.5                                      | 20.1                      | 360              | 670                        |
| 3 G 2.5                                       | 9.0                       | 72               | 130                        |
| 4 G 2.5                                       | 10.0                      | 96               | 165                        |
| 5 G 2.5                                       | 11.0                      | 120              | 210                        |
| 7 G 2.5                                       | 13.4                      | 168              | 308                        |
| 12 G 2.5                                      | 15.9                      | 288              | 446                        |
| 18 G 2.5                                      | 20.4                      | 432              | 718                        |
| 25 G 2.5                                      | 24.7                      | 600              | 1070                       |
| 3 G 4                                         | 10.6                      | 115              | 192                        |
| 4 G 4                                         | 11.8                      | 154              | 243                        |
| 5 G 4                                         | 13.3                      | 192              | 325                        |
| 7 G 4                                         | 18.5                      | 269              | 469                        |
| 3 G 6                                         | 12.8                      | 173              | 290                        |



| Number of cores x nominal cross-section (mm²) | Outer diameter appr. (mm) | Cu-value (kg/km) | Total weight appr. (kg/km) |
|-----------------------------------------------|---------------------------|------------------|----------------------------|
| 4 G 6                                         | 14.0                      | 230              | 368                        |
| 7 G 6                                         | 19.8                      | 403              | 620                        |

CONTACT PERSON

Dipl. Ing. Peter Tomka  
+421 37 6969631  
peter.tomka@ics-cables.sk

