

FLEXIDRUM® R 502



Construction:

| | |
|---------------------------|---|
| Conductor: | <i>Construction with anti-twisting:</i> flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 <i>Construction without anti-twisting:</i> flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 |
| Insulation: | GAALTHERM® 530 |
| Cores color: | acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores |
| Central unit: | textile element |
| Stranding: | in layers around central unit |
| Wrapping: | non-woven tape over each layer |
| Inner sheath: | PUR compound |
| Supporting screen: | anti-twisting protection of textile braid |
| Outer sheath: | yellow (similar to RAL 1021 or 1018) or black (similar to RAL 9005), PUR compound |

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1
EN 50265-2-1
IEC 60332-1-2



Halogen-free acc. to:
DIN VDE 0482 part 267,
EN 50267-2-1,
IEC 60754-1



Oil resistance acc. to:
DIN VDE 0473 part 811-2-1
IEC EN 60811-2-1

Technical data:

| | |
|---|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Test voltage: | 4 kV |
| Temperature range: | |
| <i>Fixed laying:</i> | -50°C up to +90°C |
| <i>Flexible installation:</i> | -40°C up to +90°C |
| Max. temperature on conductor: | + 90°C |
| Max. temperature in short circuit: | + 250 °C |
| Min. bending radius: | acc. to DIN VDE 0298 part 3 |
| Pulling force: | 20 N/mm ² |
| Max. torsion: | ± 25°/1mt. |
| Max speed (main application): | with anti-twisting: 180 m/min without anti-twisting: 30 m/min |

Features:

UV resistance: very good
chemical resistance: good
small outer diameter
reduced cable weight
high winding and unwinding strength
possible version without anti-twisting protection identified with "1" on the 5th number of the Part. n
Possible black outer sheath version
for SPEED and MINIMUM BENDING RADIUS
see pages from 2 to 8 of catalogue
RoHS and CE approval



Applications:

FLEXIDRUM® R 502
is used on heavy appliances like motor cable
reel hoists, transport systems, movable
motors and farm vehicles with high
mechanical stress

CABLE REELS

FLEXIDRUM® R 502



| Part no. | No. of cores x cross section n x mm ² | Outer-Ø ca.mm ± 10% | Copper weight kg/km | Cable weight approx. kg/km | AWG no.)* |
|----------------|--|---------------------------|---------------------------|----------------------------------|--------------|
| 01050GY2041M60 | 4G6 | 17,4 | 230,4 | 471,6 | 10 |
| 01050GY2041M61 | 4G10 | 20,6 | 384 | 706,4 | 8 |
| 01050GY2041M62 | 4G16 | 23,0 | 614,4 | 987,6 | 6 |
| 01050GY2041M63 | 4G25 | 27,7 | 960 | 1471,7 | 4 |
| 01050GY2041M64 | 4G35 | 30,5 | 1344 | 1923,2 | 2 |
| 01050GY2041M65 | 4G50 | 35,3 | 1920 | 2656,3 | 1 |
| 01050GY2041M66 | 4G70 | 40,0 | 2688 | 3579,3 | 2/0 |
| 01050GY2041M67 | 4G95 | 44,7 | 3648 | 4726,4 | 3/0 |
| 01050GY2041M68 | 4G120 | 49,9 | 4608 | 5897,1 | 4/0 |
| 01050GY2041M69 | 4G150 | 55,0 | 5760 | 7323,6 | 250 MCM |
| 01050GY2051M60 | 5G6 | 18,9 | 288 | 568,9 | 10 |
| 01050GY2051M61 | 5G10 | 22,4 | 480 | 853,6 | 8 |
| 01050GY2051M62 | 5G16 | 25,3 | 768 | 1213,3 | 6 |
| 01050GY2051M63 | 5G25 | 30,7 | 1200 | 1828,5 | 4 |
| 01050GY2051M64 | 5G35 | 34,4 | 1680 | 2437,2 | 2 |
| 01050GY2037M63 | 3x25+3G16/3 | 25,2 | 892,8 | 1343,9 | 4 |
| 01050GY2037M64 | 3x35+3G16/3 | 27,5 | 1180,8 | 1679,1 | 2 |
| 01050GY2037M65 | 3x50+3G25/3 | 32,0 | 1728 | 2373 | 1 |
| 01050GY2037M66 | 3x70+3G35/3 | 36,3 | 2476,8 | 3257,4 | 2/0 |
| 01050GY2037M67 | 3x95+3G50/3 | 40,4 | 3196,8 | 4110,2 | 3/0 |
| 01050GY2037M68 | 3x120+3G70/3 | 45,3 | 4176 | 5311,5 | 4/0 |
| 01050GY2037M69 | 3x150+3G70/3 | 49,6 | 5040 | 6374,9 | 250 MCM |
| 01050GY2037M70 | 3x185+3G95/3 | 55,1 | 6336 | 7924,9 | 350 MCM |
| 01050GY2037M71 | 3x240+3G120/3 | 62,9 | 8352 | 10453,4 | 450 MCM |
| 01050GY2039900 | 3x25+3G16/3+2x1,5 | 26,4 | 921,6 | 1454,5 | 4 |
| 01050GY2039901 | 3x35+3G16/3+2x1,5 | 28,7 | 1209,6 | 1795,7 | 2 |
| 01050GY2039902 | 3x50+3G25/3+2x1,5 | 33,8 | 1756,8 | 2544,6 | 1 |
| 01050GY2039903 | 3x70+3G35/3+2x2,5 | 38,2 | 2524,8 | 3475,4 | 2/0 |
| 01050GY2039904 | 3x95+3G50/3+2x2,5 | 42,1 | 3244,8 | 4326,5 | 3/0 |
| 01050GY2039905 | 3x120+3G70/3+2x2,5 | 46,5 | 4224 | 5495,6 | 4/0 |
| 01050GY2039906 | 3x150+3G70/3+2x2,5 | 51,2 | 5088 | 6614,3 | 250 MCM |
| 01050GY2039907 | 3x185+3G95/3+2x2,5 | 56,7 | 6384 | 8183,2 | 350 MCM |
| 01050GY2039908 | 3x240+3G120/3+2x2,5 | 63,1 | 8400 | 10546,3 | 450 MCM |

SECTIONS WITHOUT ANTI-TWISTING PROTECTION

| | | | | | |
|----------------|---------------------|------|--------|---------|---------|
| 01051GY2039900 | 3x25+3G16/3+2x1,5 | 26,1 | 921,6 | 1430,9 | 4 |
| 01051GY2039901 | 3x35+3G16/3+2x1,5 | 28,5 | 1209,6 | 1772,9 | 2 |
| 01051GY2039902 | 3x50+3G25/3+2x1,5 | 33,6 | 1756,8 | 2524,8 | 1 |
| 01051GY2039903 | 3x70+3G35/3+2x2,5 | 38,1 | 2524,8 | 3462,8 | 2/0 |
| 01051GY2039904 | 3x95+3G50/3+2x2,5 | 42,0 | 3244,8 | 4313,9 | 3/0 |
| 01051GY2039905 | 3x120+3G70/3+2x2,5 | 46,2 | 4224 | 5459 | 4/0 |
| 01051GY2039906 | 3x150+3G70/3+2x2,5 | 50,8 | 5088 | 6547,6 | 250 MCM |
| 01051GY2039907 | 3x185+3G95/3+2x2,5 | 56,4 | 6384 | 8136 | 350 MCM |
| 01051GY2039908 | 3x240+3G120/3+2x2,5 | 62,6 | 8400 | 10469,5 | 450 MCM |

Other dimensions and colors available on request.