

SEMOFLEX DRUM

PUR Drum reeling cable, Halogen Free, VDE/UL/CSA Approved



Application
Semoflex Drum cable is specially designed for use on both spring operated and motorised cable reeling drums, it is also suitable for other applications such as cable drag chains and transportation systems. It is suitable for use in dry and damp areas, explosive environments and a variety of heavy duty indoor and outdoor applications where high mechanical stresses are involved.

Construction

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|--------------------|--|
| Conductor : | Fine stranded plain copper according to VDE 0295 Class6 |
| Insulation: | Semocore on polyester base |
| Core colour : | Up to 5 cores according to VDE 0293 -7 cores and above white with black numbers with green/yellow earth |
| Core Arrangement : | Cores twisted around Central textile filler with short lengths of lay |
| Inner Sheath : | Special polyurethane |
| Support braid : | Textile braid Between inner and outer sheaths |
| Outer sheath : | Special polyurethane, flame resistant & halogen free |
| Sheath colour : | Yellow |
| Imprint : | Semoflex Drum 600/1000V |

Working Environment

| | |
|---|--------------------------------------|
| Maximum operating temperature in fixed application : | -50 deg C - + 80 deg C |
| Maximum operating temperature in mobile application : | -40 deg C - + 80 deg C |
| Maximum temperature at conductor : | +90 deg C |
| Environment : | suitable for use in dry & damp areas |

Electrical properties

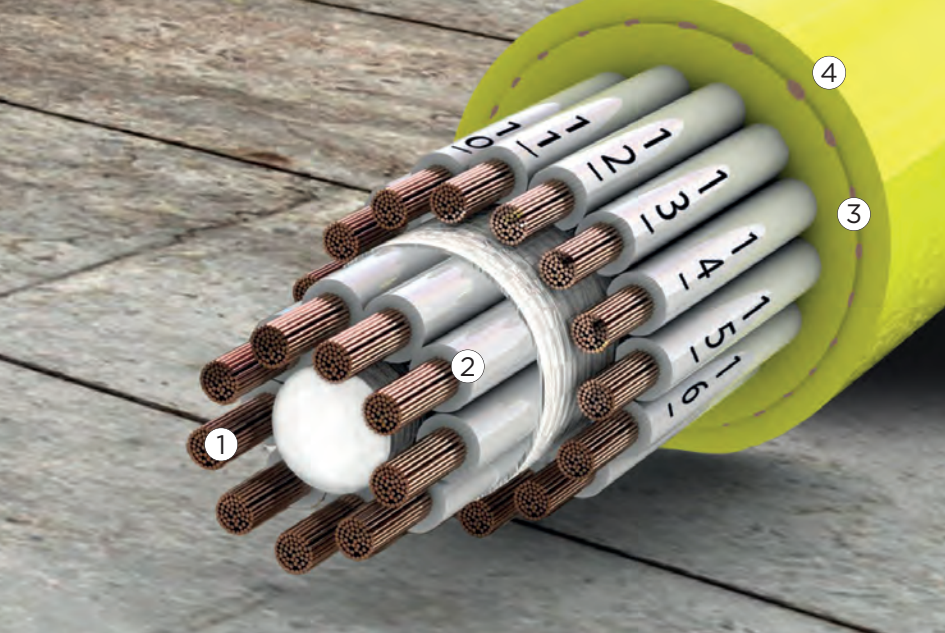
| | |
|-------------------------|------------------------------------|
| Nominal voltage : | 600/1000 V |
| Test Voltage : | 4000 V |
| Conductor resistance : | In accordance with IEC 228 class 6 |
| Insulation resistance : | > 20 MOhms x km |

Additional information

| | |
|--------------------------|--|
| Minimum bending radius : | In accordance with VDE 0298 part 3 |
| Tensile strength : | see chart |
| Operating Speed : | 200 m/min (please enquire for higher operating speeds) |
| Oil resistance : | According to VDE 0472 part 803 test type B |
| Flame resistance : | According to VDE 0482 pt IEC 332-1-2 resp. IEC 60332-1-2 |

Applied Standards

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|--|--------------------------|
| | VDE Reg No 6510 |
| | UL/CSA Style 10264/20235 |
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- ① Copper conductor
- ② Semocore Insulation
- ③ Textile Support Braid
- ④ Outer Sheath

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| Part No | Cross Section mm ² | Current Rating @ 30 Deg | CU Number kg/km | Outer Diameter approx (mm) | Weight kg/km | Tensile Strength (N) |
|---------------------|----------------------------------|----------------------------|--------------------|-------------------------------|-----------------|-------------------------|
| 08042 0150 04 | 4 G 1.5 | 23A | 59.0 | 10.2 | 157 | 150 |
| 08042 0150 05 | 5 G 1.5 | 23A | 74.0 | 10.8 | 176 | 190 |
| 08042 0150 07 | 7 G 1.5 | 23A | 104.0 | 12.9 | 245 | 265 |
| 08042 0150 12 | 12 G 1.5 | 23A | 178.0 | 18.4 | 337 | 450 |
| 08042 0150 18 | 18 G 1.5 | 23A | 259.2 | 18.6 | 526 | 675 |
| 08042 0150 24 | 24 G 1.5 | 23A | 356.0 | 21.3 | 662 | 900 |
| 08042 0150 30 Bd ** | 30 G 1.5 | 23A | 446.0 | 27.4 | 920 | 1125 |
| 08042 0150 36 Bd | 36 G 1.5 | 23A | 535.0 | 29.0 | 953 | 1890 |
| 08042 0150 42 Bd | 42 G 1.5 | 23A | 624.0 | 29.5 | 1192 | 2200 |
| 08042 0150 49 Bd ** | 49 G 1.5 | 23A | 728.0 | 32.6 | 1508 | 2580 |
| 08042 0250 04 | 4 G 2.5 | 30A | 99.0 | 11.7 | 208 | 250 |
| 08042 0250 05 | 5 G 2.5 | 30A | 124.0 | 12.7 | 263 | 315 |
| 08042 0250 07 | 7 G 2.5 | 30A | 173.0 | 14.8 | 327 | 440 |
| 08042 0250 12 | 12 G 2.5 | 30A | 297.0 | 20.4 | 523 | 750 |
| 08042 0250 18 | 18 G 2.5 | 30A | 446.0 | 21.1 | 725 | 1125 |
| 08042 0250 24 | 24 G 2.5 | 30A | 594.0 | 24.8 | 988 | 1500 |
| 08042 0250 30 Bd | 30 G 2.5 | 30A | 743.0 | 28.8 | 1299 | 2625 |
| 08042 0250 36 Bd | 36 G 2.5 | 30A | 784.0 | 32.4 | 1411 | 3150 |
| 08042 0250 42 Bd | 42 G 2.5 | 30A | 1040.0 | 33.5 | 1637 | 3675 |
| 08042 0250 49 Bd | 49 G 2.5 | 30A | 1213.0 | 38.0 | 2156 | 4280 |
| 08042 0400 04 | 4 G 4 | 41A | 158.0 | 12.5 | 270 | 400 |
| 08042 0400 05 | 5 G 4 | 41A | 198.0 | 14.3 | 362 | 500 |
| 08042 0600 04 | 4 G 6 | 53A | 238.0 | 16.9 | 409 | 600 |
| 08042 0600 05 | 5 G 6 | 53A | 297.0 | 17.8 | 511 | 750 |
| 08042 0600 07 | 7 G 6 | 53A | 416.0 | 20.9 | 715 | 1050 |
| 08042 1000 04 | 4 G 10 | 74A | 396.0 | 19.6 | 633 | 1000 |
| 08042 1000 05 | 5 G 10 | 74A | 495.0 | 20.9 | 766 | 1250 |
| 08042 1000 07 | 7 G 10 | 74A | 693.0 | 25.8 | 1044 | 1750 |
| | | | | | | |
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** Not a stock item - 300m MOQ

We reserve the right to amend all technical details without prior notification

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| Part No | Cross Section mm ² | Current Rating @ 30 Deg | CPU Number kg/km | Outer diameter approx. (mm) | Weight kg/km | Tensile Strength (N) |
|---------------------|----------------------------------|----------------------------|---------------------|--------------------------------|-----------------|-------------------------|
| 08042 1600 04 | 4 G 16 | 99A | 634.0 | 23.8 | 936 | 1600 |
| 08042 1600 05 | 5 G 16 | 99A | 792.0 | 25.3 | 1173 | 2000 |
| 08042 2500 04 | 4 G 25 | 131A | 990.0 | 27.7 | 1483 | 2500 |
| 08042 2500 05 | 5 G 25 | 131A | 1250.0 | 30.8 | 1703 | 3100 |
| 08042 3500 04 | 4 G 35 | 162A | 1386.0 | 30.1 | 2115 | 3500 |
| 08042 5000 04 ** | 4 G 50 | 202A | 1980.0 | 35.2 | 2600 | 5000 |
| 08042 7000 04 ** | 4 G 70 | 250A | 2772.0 | 40.3 | 3700 | 7000 |
| 08042 9500 04 ** | 4 G 95 | 301A | 3762.0 | 47.5 | 5200 | 7000 |
| 08042 1200 04 ** | 4 G 120 | 352A | 4608.0 | 50.7 | 6080 | - |
| 08042 5000 03 -25/3 | 3 G 50 + 3 G 25/3 | 202A | 1733.0 | 32.5 | 2100 | 4500 |
| 08042 1600 04 XX | 4G16 + 2x(4x1.5)C | 99A | 925.0 | 29.3 | 1512 | 1600 |
| 08042 1600 04 SP | 4 G 16 + 4 x 2.5 | 99A | 733.0 | 23.6 | 1100 | 2050 |

** Not a stock item - 300m MOQ

SEMOFLEX DRUM

PUR Drum reeling cable, Halogen Free, VDE/UL/CSA Approved with Screened elements

Single core screen

| | | | | | | |
|---------------------|-----------|-----|-------|------|-----|-----|
| 08042 0150 04 CY ** | 4 G (1.5) | 20A | 94.0 | 14.0 | 225 | 150 |
| 08042 0150 05 CY ** | 5 G (1.5) | 20A | 118.0 | 17.6 | - | 190 |

Overall screen

| | | | | | | |
|---------------------|------------|-----|-------|------|-----|------|
| 08042 0150 24 CY ** | (24 G 1.5) | 20A | 430.0 | 22.0 | 780 | 900 |
| 08042 0150 30 CY ** | (30 G 1.5) | 20A | 538.0 | 23.6 | 926 | 1125 |

Combination cables with Single core screen

| | | | | | | |
|---------------------|------------------|-----|-------|------|------|------|
| 08042 0150 19 SP ** | 19G2.5+(5x1.5)ec | 25A | 590.0 | 25.2 | 970 | 1375 |
| 08042 0150 25 SP ** | 25G2.5+(5x1.5)ec | 25A | 672.0 | 27.7 | 1170 | 1750 |

** Not a stock item - 300m MOQ

Current carrying capacity @ 30 deg C (acc. To DIN VDE 0298 Part 4)

| Cross Section mm ² | Laid Straight | Suspended in Free Air | Reeled 1 Layer | Reeled 2 Layers | Reeled 3 Layers | Reeled 4 Layers |
|----------------------------------|---------------|--------------------------|----------------|-----------------|-----------------|-----------------|
| 1.5 | 23A | 24A | 18A | 14A | 11A | 10A |
| 2.5 | 30A | 32A | 24A | 18A | 15A | 13A |
| 4 | 41A | 43A | 33A | 25A | 20A | 17A |
| 6 | 53A | 56A | 42A | 32A | 26A | 22A |
| 10 | 74A | 78A | 59A | 45A | 36A | 31A |
| 16 | 99A | 104A | 79A | 60A | 49A | 42A |
| 25 | 131A | 138A | 105A | 80A | 64A | 55A |
| 35 | 162A | 170A | 130A | 99A | 79A | 68A |
| 50 | 202A | 212A | 162A | 123A | 99A | 85A |
| 70 | 250A | 263A | 200A | 153A | 123A | 105A |
| 90 | 301A | 316A | 214A | 184A | 147A | 126A |
| 120 | 352A | 370A | 282A | 215A | 172A | 148A |
| 150 | 404A | 424A | 323A | 246A | 198A | 170A |
| 185 | 461A | 484A | 369A | 281A | 226A | 194A |