

Dynamic Performance



The **MotionMultiwire DP series** incorporates the most commonly used cables used in power and tool power supply and industrial wiring harnesses in general. Suitable for a pose that goes from fixed (BP version with PVC sheath) to high-end (HP version with PUR sheath), they have flexibility, reduced bending radius and chemical resistance in general. The whole series is **UL / CSA and EAC approved**.



#### CONSTRUCTION FEATURES

|              |                                                 |
|--------------|-------------------------------------------------|
| Conductor    | Extra Flexible Bare Copper Class 6              |
| Insulation   | Special Polypropylene                           |
| Colour Code  | Black with white number + Y/G                   |
| Layup        | Twisted Pairs - Levels divided by No Woven Tape |
| Separator    | Easy strip away tape                            |
| Outer Sheath | <b>PVC Oil Resistant</b>                        |
| Colour       | Grey / RAL 7001                                 |

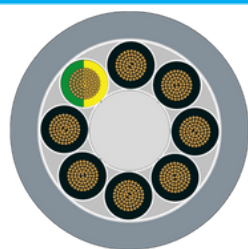
#### PRODUCT'S FEATURES

|                                                                                   |                                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|  | <b>Operating Voltage</b><br>0.6/1kV                                     |
|  | <b>Temperature</b><br>static -40 °C / +90 °C<br>dynamic -25 °C / +90 °C |
|  | <b>Dielectric Strength</b><br>4.0 kV acc.to EN 50395 Part 6 - 7         |
|  | <b>Insulation Resistance</b><br>≥ 1 GΩ x km<br>acc.to EN 50395 Part 8   |
|  | <b>Electrical Resistance</b><br>IEC 60228 Cl.6<br>EN 50395 Part. 5      |

#### MECHANICAL FEATURES

|                                                                                      |                                              |
|--------------------------------------------------------------------------------------|----------------------------------------------|
|   | <b>Speed</b><br>300 m/min                    |
|   | <b>Bending Radius</b><br>6.5 x Ø             |
|   | <b>Acceleration</b><br>20 m/sec <sup>2</sup> |
|   | <b>Cycles</b><br>5.000.000                   |
|   | <b>Torsion</b><br>±30°/1000 mm               |
|  | <b>Pulling</b><br>≤ 20 N/mm <sup>2</sup>     |

| Eurocabos Code | MotioCables Code | Formation | Outer Diameter | Copper Weight | Weight approx. kg/km |
|----------------|------------------|-----------|----------------|---------------|----------------------|
| EUR-170-0001   | MDN21X02UR-G     | 2x0.5     | 5.5            | 10            | 29                   |
| EUR-170-0445   | MDN21G03UR-G     | 3G0.5     | 5.5            | 14            | 37                   |
| EUR-170-0446   | MDN21G04UR-G     | 4G0.5     | 6.2            | 19            | 45                   |
| EUR-170-0447   | MDN21G05UR-G     | 5G0.5     | 6.7            | 24            | 55                   |
| EUR-170-0449   | MDN21G07UR-G     | 7G0.5     | 7.9            | 34            | 78                   |
| EUR-170-0454   | MDN21G12UR-G     | 12G0.5    | 9.3            | 58            | 115                  |
| EUR-170-0460   | MDN21G18UR-G     | 18G0.5    | 11.2           | 86            | 167                  |
| EUR-170-0467   | MDN21G25UR-G     | 25G0.5    | 13.2           | 120           | 225                  |
|                |                  |           |                |               |                      |
| EUR-170-0068   | MDN19X02UR-G     | 2X0.75    | 5.9            | 14            | 36                   |
| EUR-170-0512   | MDN19G03UR-G     | 3G0.75    | 6.2            | 22            | 46                   |
| EUR-170-0513   | MDN19G04UR-G     | 4G0.75    | 6.7            | 29            | 58                   |
| EUR-170-0514   | MDN19G05UR-G     | 5G0.75    | 7.3            | 36            | 70                   |
| EUR-170-0516   | MDN19G07UR-G     | 7G0.75    | 8.6            | 50            | 100                  |
| EUR-170-0521   | MDN19G12UR-G     | 12G0.75   | 10.1           | 86            | 148                  |
| EUR-170-0527   | MDN19G18UR-G     | 18G0.75   | 12.2           | 130           | 223                  |
| EUR-170-0534   | MDN19G25UR-G     | 25G0.75   | 14.4           | 180           | 309                  |
|                |                  |           |                |               |                      |
| EUR-170-0135   | MDN17X02UR-G     | 2X1       | 6.2            | 19            | 43                   |
| EUR-170-0579   | MDN17G03UR-G     | 3G1       | 6.5            | 29            | 57                   |
| EUR-170-0580   | MDN17G04UR-G     | 4G1       | 7.1            | 38            | 71                   |
| EUR-170-0581   | MDN17G05UR-G     | 5G1       | 7.7            | 48            | 91                   |
| EUR-170-0583   | MDN17G07UR-G     | 7G1       | 9.1            | 67            | 128                  |
| EUR-170-0588   | MDN17G12UR-G     | 12G1      | 11.1           | 115           | 192                  |
| EUR-170-0594   | MDN17G18UR-G     | 18G1      | 12.9           | 173           | 287                  |
| EUR-170-0601   | MDN17G25UR-G     | 25G1      | 15.7           | 240           | 396                  |
|                |                  |           |                |               |                      |
| EUR-170-0202   | MDN15X02UR-G     | 2X1.5     | 6.8            | 29            | 57                   |
| EUR-170-0646   | MDN15G03UR-G     | 3G1.5     | 7.2            | 43            | 74                   |
| EUR-170-0647   | MDN15G04UR-G     | 4G1.5     | 7.8            | 58            | 98                   |
| EUR-170-0648   | MDN15G05UR-G     | 5G1.5     | 8.5            | 72            | 124                  |
| EUR-170-0650   | MDN15G07UR-G     | 7G1.5     | 10.1           | 101           | 175                  |
| EUR-170-0655   | MDN15G12UR-G     | 12G1.5    | 12.4           | 173           | 263                  |
| EUR-170-0661   | MDN15G18UR-G     | 18G1.5    | 14.4           | 259           | 393                  |
| EUR-170-0668   | MDN15G25UR-G     | 25G1.5    | 17.6           | 360           | 541                  |



High Performance



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Flame Resistant



Oil Resistant



Good Flexibility

### CONSTRUCTION FEATURES

|              |                                                 |
|--------------|-------------------------------------------------|
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| Insulation   | Special Polypropylene                           |
| Colour Code  | Black with white number + Y/G                   |
| Layup        | Twisted Pairs - Levels divided by No Woven Tape |
| Separator    | Easy strip away tape                            |
| Outer Sheath | <b>PVC Oil Resistant</b>                        |
| Colour       | Grey / RAL 7001                                 |

### PRODUCT'S FEATURES

|                                                                                   |                                                                         |
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|  | <b>Dielectric Strength</b><br>4.0 kV acc.to EN 50395 Part 6 - 7         |
|  | <b>Insulation Resistance</b><br>≥ 1 GΩ x km<br>acc.to EN 50395 Part 8   |
|  | <b>Electrical Resistance</b><br>IEC 60228 Cl.6<br>EN 50395 Part. 5      |

### MECHANICAL FEATURES

|                                                                                      |                                              |
|--------------------------------------------------------------------------------------|----------------------------------------------|
|   | <b>Speed</b><br>300 m/min                    |
|   | <b>Bending Radius</b><br>6.5 x Ø             |
|   | <b>Acceleration</b><br>20 m/sec <sup>2</sup> |
|   | <b>Cycles</b><br>5.000.000                   |
|   | <b>Torsion</b><br>±30°/1000 mm               |
|  | <b>Pulling</b><br>≤ 20 N/mm <sup>2</sup>     |

| Eurocabos Code | MotioCables Code | Formation | Outer Diameter | Copper Weight | Weight approx. kg/km |
|----------------|------------------|-----------|----------------|---------------|----------------------|
| EUR-170-0269   | MDN13X02UR-G     | 2x2.5     | 8              | 48            | 9                    |
| EUR-170-0713   | MDN13G03UR-G     | 3G2.5     | 8.5            | 72            | 114                  |
| EUR-170-0714   | MDN13G04UR-G     | 4G2.5     | 9.2            | 96            | 149                  |
| EUR-170-0715   | MDN13G05UR-G     | 5G2.5     | 10.1           | 120           | 189                  |
| EUR-170-0717   | MDN13G07UR-G     | 7G2.5     | 12.5           | 168           | 265                  |
| EUR-170-0722   | MDN13G12UR-G     | 12G2.5    | 14.9           | 288           | 414                  |
| EUR-170-0728   | MDN13G18UR-G     | 18G2.5    | 17.8           | 432           | 614                  |
| EUR-170-0735   | MDN13G25UR-G     | 25G2.5    | 21.7           | 600           | 855                  |
| EUR-170-0780   | PDN11G03UR-G     | 3G4       | 11             | 115           | 170                  |
| EUR-170-0781   | PDN11G04UR-G     | 4G4       | 11.7           | 154           | 221                  |
| EUR-170-0782   | PDN11G05UR-G     | 5G4       | 14.8           | 192           | 279                  |
| EUR-170-0784   | PDN11G07UR-G     | 7G4       | 16.5           | 269           | 550                  |
| EUR-170-0806   | PDN09G04UR-G     | 4G6       | 14.4           | 230           | 329                  |
| EUR-170-0818   | PDN07G04UR-G     | 4G10      | 18.6           | 384           | 642                  |
| EUR-170-0830   | PDN05G04UR-G     | 4G16      | 22.8           | 614           | 926                  |
| EUR-170-0837   | PDN03G04UR-G     | 4G25      | 26.3           | 960           | 1700                 |
| EUR-170-0844   | PDN02G04UR-G     | 4G35      | 30             | 1344          | 2300                 |

### Product's Features



#### Oil Resistant (O-III)

EN 50363-4-1, UL 1581



#### Flame Resistant

IEC 60332-1-2; UL WV1; UL FT 1



#### Good Flexibility

EN 50289-3-9