

# DESCAPUR motion C-614 UL

0,50 mm<sup>2</sup> - 16,00 mm<sup>2</sup>

Extra flexible drag chain cables PUR 600 V, numbered cores, shielded, halogen-free, UL 20234 CSA approved

## Application

In drag chains, at medium to high stress, as movable control- or power cable in mechanical engineering and machine tool construction, in industrial plants, etc..

Operation speed max. 250 m/min (from 14 cores 200 m/min), acceleration max. 30 m/s<sup>2</sup> (from 14 cores 10 m/s<sup>2</sup>), horizontal chain length max. 15 m.

## Construction

Extra flexible bare copper conductors, acc. to IEC 60228, class 6 Insulation Polyolefin (and TPE-E), black with white numbers, 3 cores and above green-yellow included (in the outer lay)

Cores laid up in lays

Non-woven tape

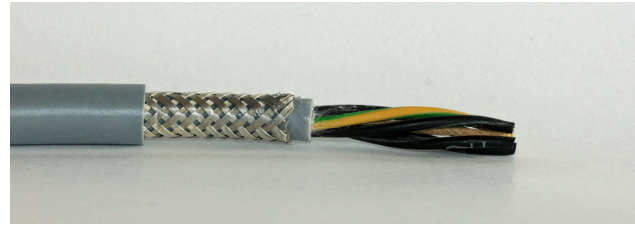
Shielded by a tinned copper braid, coverage ca. 85 %

Non-woven tape

Sheath PUR grey, RAL 7001, adhesion-free

## Special Characteristics

The cables are oil resistant according to VDE 0472 - 803 A/B and HD 22.10 S1 and UL 1581. They are flame retardant according to IEC 60332-1, UL VW-1 and CSA FT1 as well, additionally halogen-free according to IEC 60754-1. The PUR outer sheath is suitable well to be used in contact with coolants, lubricants and aggressive chemicals and meets highest requirements to the abrasion resistance, to the tear and compressive resistance.



## Technical Properties

|                                 |                           |
|---------------------------------|---------------------------|
| Rated voltage U <sub>0</sub> /U |                           |
| - IEC                           | 300 / 500 V (450 / 750 V) |
| - UL/CSA                        | 600 V (1'000 V)           |
| Test voltage                    | 4000 V                    |
| Insulation resistance           | 20 MOhm x km              |
| Temperature range               | - 30°C ... + 80°C         |
| - static installation           | - 40°C ... + 80°C         |
| Minimum bending radius          | 6 x cable diameter        |
| - from 14 cores                 | 8 x cable diameter        |

## Standards / Approvals

UL AWM Style 20234 80°C 600 V  
(or UL AWM Style 2570 80°C 600V / 1000 V)  
CSA AWM I/II A/B 80°C 600V FT1

| Part Number | Type n x mm <sup>2</sup> | Overall-Ø ca. mm | Copper kg/km | Weight kg/km |
|-------------|--------------------------|------------------|--------------|--------------|
| 214737      | 2 x 0,50                 | 7.60             | 35.00        | 53.00        |
| 214738      | 3 x 0,50                 | 8.10             | 40.00        | 80.00        |
| 214739      | 4 x 0,50                 | 8.40             | 47.00        | 92.00        |
| 214740      | 5 x 0,50                 | 9.10             | 56.00        | 108.00       |
| 214741      | 7 x 0,50                 | 10.00            | 71.00        | 142.00       |
| 214743      | 12 x 0,50                | 11.80            | 105.00       | 198.00       |
| 214745      | 18 x 0,50                | 13.20            | 154.00       | 275.00       |
| 214747      | 25 x 0,50                | 15.60            | 203.00       | 370.00       |
| 214748      | 34 x 0,50                | 16.50            | 260.00       | 460.00       |
| 214750      | 2 x 0,75                 | 8.30             | 41.00        | 83.00        |
| 214751      | 3 x 0,75                 | 8.70             | 53.00        | 99.00        |
| 214752      | 4 x 0,75                 | 9.00             | 64.00        | 115.00       |
| 214753      | 5 x 0,75                 | 9.70             | 75.00        | 130.00       |
| 214754      | 7 x 0,75                 | 10.50            | 100.00       | 175.00       |
| 214756      | 12 x 0,75                | 12.50            | 169.00       | 257.00       |
| 214758      | 18 x 0,75                | 14.40            | 226.00       | 370.00       |
| 214760      | 25 x 0,75                | 16.50            | 298.00       | 460.00       |
| 214761      | 34 x 0,75                | 18.10            | 330.00       | 615.00       |
| 214763      | 2 x 1,00                 | 8.50             | 48.00        | 96.00        |
| 214764      | 3 x 1,00                 | 8.80             | 62.00        | 118.00       |
| 214765      | 4 x 1,00                 | 9.50             | 78.00        | 138.00       |
| 214766      | 5 x 1,00                 | 10.30            | 87.00        | 161.00       |
| 214767      | 7 x 1,00                 | 11.30            | 118.00       | 215.00       |
| 214769      | 12 x 1,00                | 13.50            | 198.00       | 310.00       |
| 214771      | 18 x 1,00                | 15.60            | 265.00       | 440.00       |
| 214773      | 25 x 1,00                | 18.20            | 360.00       | 605.00       |
| 214774      | 34 x 1,00                | 20.40            | 432.00       | 820.00       |
| 214775      | 41 x 1,00                | 22.30            | 505.00       | 980.00       |

| Part Number | Type n x mm <sup>2</sup> | Overall-Ø ca. mm | Copper kg/km | Weight kg/km |
|-------------|--------------------------|------------------|--------------|--------------|
| 214776      | 2 x 1,50                 | 9.30             | 69.00        | 115.00       |
| 214777      | 3 x 1,50                 | 9.80             | 83.00        | 140.00       |
| 214778      | 4 x 1,50                 | 10.50            | 97.00        | 175.00       |
| 214779      | 5 x 1,50                 | 11.20            | 118.00       | 205.00       |
| 214780      | 7 x 1,50                 | 12.50            | 149.00       | 265.00       |
| 214782      | 12 x 1,50                | 15.00            | 260.00       | 410.00       |
| 214784      | 18 x 1,50                | 17.20            | 350.00       | 570.00       |
| 214786      | 25 x 1,50                | 21.00            | 480.00       | 786.00       |
| 214787      | 34 x 1,50                | 23.00            | 670.00       | 1100.00      |
| 21488       | 42 x 1,50                | 25.00            | 790.00       | 1380.00      |
| 214789      | 2 x 2,50                 | 9.20             | 80.00        | 165.00       |
| 214790      | 3 x 2,50                 | 10.80            | 118.00       | 220.00       |
| 214791      | 4 x 2,50                 | 11.30            | 160.00       | 255.00       |
| 214792      | 5 x 2,50                 | 12.20            | 193.00       | 320.00       |
| 214793      | 7 x 2,50                 | 14.50            | 260.00       | 440.00       |
| 214795      | 12 x 2,50                | 17.20            | 395.00       | 560.00       |
| 214797      | 18 x 2,50                | 20.50            | 550.00       | 915.00       |
| 214799      | 25 x 2,50                | 24.20            | 730.00       | 1180.00      |
| 214803      | 3 x 4,00                 | 12.00            | 174.00       | 270.00       |
| 214804      | 4 x 4,00                 | 14.30            | 237.00       | 410.00       |
| 214805      | 5 x 4,00                 | 15.50            | 280.00       | 470.00       |
| 214806      | 7 x 4,00                 | 18.00            | 365.00       | 720.00       |
| 214817      | 4 x 6,00                 | 16.00            | 318.00       | 540.00       |
| 214818      | 5 x 6,00                 | 17.30            | 390.00       | 600.00       |
| 214830      | 4 x 10,00                | 20.00            | 490.00       | 830.00       |
| 214831      | 5 x 10,00                | 22.50            | 660.00       | 960.00       |
| 214843      | 4 x 16,00                | 23.00            | 780.00       | 1380.00      |
| 214844      | 5 x 16,00                | 25.00            | 990.00       | 1630.00      |

## Packaging

cut to desired length