

# ... harnessed cables for drive technology ... chainflex® readycable® ▶▶

Selection chart for igus® chainflex® cables (you can find the green number on

|                               | 1         | 2            | 3         | 4             | 5          | 6             | 7             |
|-------------------------------|-----------|--------------|-----------|---------------|------------|---------------|---------------|
| chainflex® series             | CF31      | CF35.UL      | CF38      | CF210.UL      | CF21.UL    | CF270.UL.D    | CF27.D        |
| Class                         | 5.5.2.1   | 6.6.4.1      | 7.6.4.1   | 4.2.2.1       | 5.5.2.1    | 4.2.3.1       | 6.5.3.1       |
| Outer jacket                  | PVC       | TPE          | TPE       | PVC           | PVC        | PUR           | PUR           |
| Shielded                      | ✓         | ✓            | ✓         | ✓             | ✓          | ✓             | ✓             |
| Minimum bend radius [x d]     | 7.5 x d   | 7.5 x d      | 7.5 x d   | 10 x d        | 7.5 x d    | 10 x d        | 7.5 x d       |
| Travel distance [m]           | ≤ 100     | ≤ 400        | ≤ 400     | ≤ 10          | ≤ 100      | ≤ 10          | ≤ 100         |
| Oil-resistant                 | ✓         | ✓            | ✓         | ✓             | ✓          | ✓             | ✓             |
| Oil-/coolant-resistant        |           |              |           |               |            | ✓             | ✓             |
| Flame-retardant               | ✓         | ✓            |           | ✓             | ✓          | ✓             | ✓             |
| Halogen-free                  |           |              | ✓         |               |            | ✓             | ✓             |
| Notch-resistant               |           |              |           |               |            | ✓             | ✓             |
| Hydrolysis-/microbe-resistant |           | ✓            | ✓         |               |            | ✓             | ✓             |
| Temperature, from/to [°C]     | -5/+70    | -35/+90      | -35/+90   | +5/+70        | +5/+70     | -25/+80       | -25/+80       |
| Nominal voltage [V]           | 600/1000  | 600/1000     | 600/1000  | 600/1000      | 600/1000   | 600/1000      | 600/1000      |
| Colour                        | Jet black | Signal black | Jet black | Pastel orange | Moss green | Pastel orange | Pastel orange |
| CE/CEI                        |           |              |           |               |            |               |               |
| RoHS                          |           |              |           |               |            |               |               |
| CleanRoom                     |           |              |           |               |            |               |               |
| EAC/CTP                       |           |              |           |               |            |               |               |
| UL/CSA + NFPA                 |           |              |           |               |            |               |               |
| Desina                        |           |              |           |               |            |               |               |
| More Information              |           |              |           |               |            |               |               |
| ▶ Catalogue page              | 296       | 316          | 322       | 252           | 260        | 266           | 274           |
| www.igus.eu/                  | CF31      | CF35UL       | CF38      | CF210UL       | CF21UL     | CF270ULD      | CF27D         |

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|                               | 8            | 9            | 10           | 11           | 12            | 13          | 14          | 15              | 16         |
|-------------------------------|--------------|--------------|--------------|--------------|---------------|-------------|-------------|-----------------|------------|
| chainflex® series             | CF211 Mess   | CF111.D      | CF113.D      | CF11.D       | CFBUS         | CF240.PUR   | CF211       | CF113           | CF11       |
| Class                         | 4.2.2.1      | 4.2.3.1      | 6.5.3.1      | 6.6.4.1      | 6.6.4.1       | 4.4.3.1     | 5.5.2.1     | 6.5.3           | 6.6.4.1    |
| Outer jacket                  | PVC          | PUR          | PUR          | TPE          | TPE           | PUR         | PVC         | PUR             | TPE        |
| Shielded                      | ✓            | ✓            | ✓            | ✓            | ✓             | ✓           | ✓           | ✓               | ✓          |
| Minimum bend radius [x d]     | 10 x d       | 10 x d       | 7.5 x d      | 7.5 x d      | 10 - 12.5 x d | 10 x d      | 7.5 x d     | 10 x d          | 6.8 x d    |
| Travel distance [m]           | ≤ 10         | ≤ 10         | ≤ 100        | ≤ 400        | ≤ 400         | ≤ 50        | ≤ 100       | ≤ 100           | ≤ 400      |
| Oil-resistant                 | ✓            | ✓            | ✓            | ✓            | ✓             | ✓           | ✓           | ✓               | ✓          |
| Oil-/coolant-resistant        |              | ✓            | ✓            |              |               | ✓           |             | ✓               |            |
| Flame-retardant               | ✓            | ✓            | ✓            |              | ✓             | ✓           | ✓           | ✓               |            |
| Halogen-free                  |              | ✓            | ✓            | ✓            |               | ✓           |             | ✓               | ✓          |
| Notch-resistant               |              | ✓            | ✓            |              |               | ✓           |             | ✓               |            |
| Hydrolysis-/microbe-resistant |              | ✓            | ✓            | ✓            | ✓             | ✓           |             | ✓               | ✓          |
| Temperature, from/to [°C]     | +5/+70       | -25/+80      | -25/+80      | -35/+90      | -35/+70       | -25/+80     | +5/+70      | -25/+80         | -35/+100   |
| Nominal voltage [V]           | 50           | 50           | 50           | 50           | 50            | 300/300     | 300/300     | 300/300         | 300/300    |
| Colour                        | Yellow green | Yellow green | Yellow green | Yellow green | Red lilac     | Silver grey | Silver grey | Anthracite grey | Steel blue |
| CE/CEI                        |              |              |              |              |               |             |             |                 |            |
| RoHS                          |              |              |              |              |               |             |             |                 |            |
| CleanRoom                     |              |              |              |              |               |             |             |                 |            |
| EAC/CTP                       |              |              |              |              |               |             |             |                 |            |
| UL/CSA + NFPA                 |              |              |              |              |               |             |             |                 |            |
| Desina                        |              |              |              |              |               |             |             |                 |            |
| More Information              |              |              |              |              |               |             |             |                 |            |
| ▶ Catalogue page              | 216          | 226          | 232          | 238          | 174           | 120         | 124         | -               | 132        |
| www.igus.eu/                  | CF211M       | CF111D       | CF113D       | CF11D        | CFBUS         | CF240PUR    | CF211       | CF113           | CF11       |

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Selection chart for igus® chainflex® cables (you can find the green number on

|                               | 17          | 18          | 19         | 20         | 21          | 22          | 23         |
|-------------------------------|-------------|-------------|------------|------------|-------------|-------------|------------|
| chainflex® series             | CF130.UL    | CF140.UL    | CF5        | CF6        | CF77.UL.D   | CF78.UL     | CF9        |
| Class                         | 4.4.1.1     | 4.4.1.1     | 5.5.2.1    | 5.5.2.1    | 5.5.3.1     | 5.5.3.1     | 7.6.4.2    |
| Outer jacket                  | PVC         | PVC         | PVC        | PVC        | PUR         | PUR         | TPE        |
| Shielded                      |             | ✓           |            | ✓          |             | ✓           |            |
| Minimum bend radius [x d]     | 7.5 x d     | 7.5 x d     | 6.8 x d    | 6.8 x d    | 6.8 x d     | 6.8 x d     | 5 x d      |
| Travel distance [m]           | ≤ 50        | ≤ 50        | ≤ 50       | ≤ 50       | ≤ 100       | ≤ 100       | > 400      |
| Oil-resistant                 |             |             | ✓          | ✓          | ✓           | ✓           | ✓          |
| Oil-/coolant-resistant        |             |             |            |            | ✓           | ✓           |            |
| Flame-retardant               | ✓           | ✓           | ✓          | ✓          | ✓           | ✓           |            |
| Halogen-free                  |             |             |            |            | ✓           | ✓           | ✓          |
| Notch-resistant               |             |             |            |            | ✓           | ✓           |            |
| Hydrolysis-/microbe-resistant |             |             |            |            | ✓           | ✓           | ✓          |
| Temperature, from/to [°C]     | +5/+70      | +5/+70      | +5/+70     | +5/+70     | -25/+80     | -25/+80     | -35/+100   |
| Nominal voltage [V]           | 300/500     | 300/500     | 300/500    | 300/500    | 300/500     | 300/500     | 300/500    |
| Colour                        | Silver grey | Silver grey | Moss green | Moss green | Window grey | Window grey | Steel blue |
| CE/CEI                        |             |             |            |            |             |             |            |
| RoHS                          |             |             |            |            |             |             |            |
| CleanRoom                     |             |             |            |            |             |             |            |
| EAC/CTP                       |             |             |            |            |             |             |            |
| UL/CSA + NFPA                 |             |             |            |            |             |             |            |
| Desina                        |             |             |            |            |             |             |            |
| More Information              |             |             |            |            |             |             |            |
| ► Catalogue page              | 50          | 54          | 58         | 62         | 78          | 82          | 90         |
| www.igus.eu/                  | CF130       | CF140       | CF5        | CF6        | CF77        | CF78        | CF9        |

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|                               | 24         | 25         | 26          | 27            | 28            | 29        | 30        | 31          | 32            |
|-------------------------------|------------|------------|-------------|---------------|---------------|-----------|-----------|-------------|---------------|
| chainflex® series             | CF10       | CF9.UL     | CF211.PUR   | CF220.UL.H    | CF280.UL.H    | CFBUS.PVC | CFBUS.PUR | CF240       | CF29.D        |
| Class                         | 7.6.4.1    | 6.6.4.2    | 5.5.3.1     | 4.2.2.1       | 4.2.3.1       | 4.3.2.1   | 4.3.3.1   | 4.4.2.1     | 7.6.4.1       |
| Outer jacket                  | TPE        | TPE        | PUR         | PVC           | PUR           | PVC       | PUR       | PVC         | TPE           |
| Shielded                      | ✓          |            | ✓           | ✓             | ✓             | ✓         | ✓         | ✓           | ✓             |
| Minimum bend radius [x d]     | 5 x d      | 5 x d      | 7.5 x d     | 10 x d        | 10 x d        | 12.5 x d  | 12.5 x d  | 10 x d      | 6.8 x d       |
| Travel distance [m]           | > 400      | > 400      | ≤ 100       | ≤ 10          | ≤ 10          | ≤ 20      | ≤ 20      | ≤ 50        | ≤ 400         |
| Oil-resistant                 | ✓          | ✓          | ✓           | ✓             | ✓             | ✓         | ✓         | ✓           | ✓             |
| Oil-/coolant-resistant        |            |            | ✓           |               | ✓             |           | ✓         |             | ✓             |
| Flame-retardant               |            | ✓          | ✓           | ✓             | ✓             | ✓         | ✓         | ✓           |               |
| Halogen-free                  | ✓          |            |             |               | ✓             |           | ✓         |             | ✓             |
| Notch-resistant               |            |            | ✓           |               | ✓             |           | ✓         |             |               |
| Hydrolysis-/microbe-resistant | ✓          | ✓          | ✓           |               | ✓             |           | ✓         |             | ✓             |
| Temperature, from/to [°C]     | -35/+100   | -35/+100   | -25/+80     | +5/+70        | -25/+80       | +5/+70    | -20/+70   | -15/+70     | -55/+100      |
| Nominal voltage [V]           | 300/500    | 300/500    | 300/300     | 600/1000      | 600/1000      | 50        | 50        | 300/300     | 600/1000      |
| Colour                        | Steel blue | Slate grey | Silver grey | Pastel orange | Pastel orange | Red lilac | Red lilac | Silver grey | Pastel orange |
| CE/CEI                        |            |            |             |               |               |           |           |             |               |
| RoHS                          |            |            |             |               |               |           |           |             |               |
| CleanRoom                     |            |            |             |               |               |           |           |             |               |
| EAC/CTP                       |            |            |             |               |               |           |           |             |               |
| UL/CSA + NFPA                 |            |            |             |               |               |           |           |             |               |
| Desina                        |            |            |             |               |               |           |           |             |               |
| More Information              |            |            |             |               |               |           |           |             |               |
| ► Catalogue page              | 94         | 98         | 128         | 256           | 270           | 162       | 170       | 116         | 278           |
| www.igus.eu/                  | CF10       | CF9UL      | CF211PUR    | CF220ULH      | CF280ULH      | CFBUSPVC  | CFBUSPUR  | CF240       | CF29.D        |

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No.                         | Cable quality | Part No.   | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|---|---------------|------------|---|------|-------------|-------------------|
|   |               |            | [mm²]   | [mm] | [x d]       |                   |
| <b>Kollmorgen/Danaher Motion Motor cables</b> |               |            |   |      |             |                   |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 88959 (5 m)                                   | TPE H*        | MAT9960626 | (4G2.5)C  | 11.5 | 7.5         | 03                |
| 88960 (10 m)                                  | TPE H*        | MAT9960627 | (4G2.5)C  | 11.5 | 7.5         | 03                |
| 88962 (15 m)                                  | TPE H*        | MAT9960628 | (4G2.5)C  | 11.5 | 7.5         | 03                |
| 88964 (20 m)                                  | TPE H*        | MAT9960629 | (4G2.5)C  | 11.5 | 7.5         | 03                |
| 88966 (25 m)                                  | TPE H*        | MAT9960630 | (4G2.5)C  | 11.5 | 7.5         | 03                |
| 89918 (5 m)                                   | PVC M.I.      | MAT9340068 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440068 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960621 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 89952 (10 m)                                  | PVC M.I.      | MAT9340069 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440069 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960622 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 89953 (15 m)                                  | PVC M.I.      | MAT9340070 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440070 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960623 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 89954 (20 m)                                  | PVC M.I.      | MAT9340071 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440071 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960624 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 89956 (25 m)                                  | PVC M.I.      | MAT9340072 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440072 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960625 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 89959 (5 m)                                   | PVC M.I.      | MAT9340004 | (4G2.5)C  | 12.0 | 7.5         | 01                |
|   | TPE F         | MAT9440004 | (4G2.5)C  | 11.5 | 7.5         | 02                |
| 89960 (10 m)                                  | PVC M.I.      | MAT9340073 | (4G2.5)C  | 12.0 | 7.5         | 01                |
|   | TPE F         | MAT9440073 | (4G2.5)C  | 11.5 | 7.5         | 02                |
| 89962 (15 m)                                  | PVC M.I.      | MAT9340074 | (4G2.5)C  | 12.0 | 7.5         | 01                |
|   | TPE F         | MAT9440074 | (4G2.5)C  | 11.5 | 7.5         | 02                |
| 89964 (20 m)                                  | PVC M.I.      | MAT9340075 | (4G2.5)C  | 12.0 | 7.5         | 01                |
|   | TPE F         | MAT9440075 | (4G2.5)C  | 11.5 | 7.5         | 02                |
| 89966 (25 m)                                  | PVC M.I.      | MAT9340076 | (4G2.5)C  | 12.0 | 7.5         | 01                |
|   | TPE F         | MAT9440076 | (4G2.5)C  | 11.5 | 7.5         | 02                |
| 90083 (5 m)                                   | PVC M.I.      | MAT9340063 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440063 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960616 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 90084 (10 m)                                  | PVC M.I.      | MAT9340064 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440064 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960617 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 90085 (15 m)                                  | PVC M.I.      | MAT9340065 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440065 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960618 | (4G1.5)C  | 10.0 | 7.5         | 03                |



**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image igus® gladly pre-harnesses the cable according to your technical specifications.  
G = with green-yellow earth core x = without earth core  
\* Cable qualities: M.I. = with inner jacket, O.I. = without inner jacket, F = flame-retardant, H = halogen-free, OIL = oil-resistant

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No.                         | Cable quality | Part No.   | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|---|---------------|------------|---|------|-------------|-------------------|
|   |               |            | [mm²]   | [mm] | [x d]       |                   |
| <b>Kollmorgen/Danaher Motion Motor cables</b> |               |            |   |      |             |                   |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 90086 (20 m)                                  | PVC M.I.      | MAT9340066 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440066 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960619 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 90087 (25 m)                                  | PVC M.I.      | MAT9340067 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440067 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960620 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 102575 (5 m)                                  | PVC M.I.      | MAT9340058 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440058 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960611 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 102576 (10 m)                                 | PVC M.I.      | MAT9340059 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440059 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960612 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 102806 (15 m)                                 | PVC M.I.      | MAT9340060 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440060 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960613 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 102807 (20 m)                                 | PVC M.I.      | MAT9340061 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440061 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960614 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 102808 (25 m)                                 | PVC M.I.      | MAT9340062 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440062 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960615 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 107473 (5 m)                                  | PVC M.I.      | MAT9340053 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440053 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960606 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 107474 (10 m)                                 | PVC M.I.      | MAT9340054 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440054 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960607 | (4G1.5)C  | 10.0 | 7.5         | 03                |
| 107475 (15 m)                                 | PVC M.I.      | MAT9340055 | (4G1.5)C  | 10.5 | 7.5         | 01                |
|   | TPE F         | MAT9440055 | (4G1.5)C  | 10.0 | 7.5         | 02                |
|   | TPE H*        | MAT9960608 | (4G1.5)C  | 10.0 | 7.5         | 03                |



\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No. | Cable quality | Part No. | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|-----------------------|---------------|----------|---|------|-------------|-------------------|
|                       |               |          | [mm²]   | [mm] | [x d]       |                   |

### Kollmorgen/Danaher Motion Motor cables

#### Basic cable



|               |          |            |          |      |     |    |
|---------------|----------|------------|----------|------|-----|----|
| 107476 (20 m) | PVC M.I. | MAT9340056 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440056 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960609 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 107477 (25 m) | PVC M.I. | MAT9340057 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440057 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960610 | (4G1.5)C | 10.0 | 7.5 | 03 |

#### Basic cable



|               |          |            |          |      |     |    |
|---------------|----------|------------|----------|------|-----|----|
| 107485 (5 m)  | PVC M.I. | MAT9340002 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440002 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960601 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 107486 (10 m) | PVC M.I. | MAT9340049 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440049 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960602 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 107487 (15 m) | PVC M.I. | MAT9340050 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440050 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960603 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 107488 (20 m) | PVC M.I. | MAT9340051 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440051 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960604 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 107489 (25 m) | PVC M.I. | MAT9340052 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440052 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960605 | (4G1.5)C | 10.0 | 7.5 | 03 |

#### Basic cable



|               |          |            |          |      |     |    |
|---------------|----------|------------|----------|------|-----|----|
| 200456 (5 m)  | PVC M.I. | MAT9340077 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440077 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960631 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 200457 (10 m) | PVC M.I. | MAT9340078 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440078 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960632 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 200458 (15 m) | PVC M.I. | MAT9340079 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440079 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960633 | (4G1.5)C | 10.0 | 7.5 | 03 |

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image igus® gladly pre-harnesses the cable according to your technical specifications.

G = with green-yellow earth core x = without earth core

\* Cable qualities: M.I. = with inner jacket, O.I. = without inner jacket, F = flame-retardant, H = halogen-free, OIL = oil-resistant

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No. | Cable quality | Part No. | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|-----------------------|---------------|----------|---|------|-------------|-------------------|
|                       |               |          | [mm²]   | [mm] | [x d]       |                   |

### Kollmorgen/Danaher Motion Motor cables

#### Basic cable



|               |          |            |          |      |     |    |
|---------------|----------|------------|----------|------|-----|----|
| 200459 (20 m) | PVC M.I. | MAT9340080 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440080 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960634 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 200460 (25 m) | PVC M.I. | MAT9340081 | (4G1.5)C | 10.5 | 7.5 | 01 |
|               | TPE F    | MAT9440081 | (4G1.5)C | 10.0 | 7.5 | 02 |
|               | TPE H*   | MAT9960635 | (4G1.5)C | 10.0 | 7.5 | 03 |
| 200468 (5 m)  | PVC M.I. | MAT9340082 | (4G2.5)C | 12.0 | 7.5 | 01 |
|               | TPE F    | MAT9440082 | (4G2.5)C | 11.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960636 | (4G2.5)C | 11.5 | 7.5 | 03 |
| 200469 (10 m) | PVC M.I. | MAT9340083 | (4G2.5)C | 12.0 | 7.5 | 01 |
|               | TPE F    | MAT9440083 | (4G2.5)C | 11.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960637 | (4G2.5)C | 11.5 | 7.5 | 03 |
| 200470 (15 m) | PVC M.I. | MAT9340084 | (4G2.5)C | 12.0 | 7.5 | 01 |
|               | TPE F    | MAT9440084 | (4G2.5)C | 11.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960638 | (4G2.5)C | 11.5 | 7.5 | 03 |
| 200471 (20 m) | PVC M.I. | MAT9340085 | (4G2.5)C | 12.0 | 7.5 | 01 |
|               | TPE F    | MAT9440085 | (4G2.5)C | 11.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960639 | (4G2.5)C | 11.5 | 7.5 | 03 |
| 200472 (25 m) | PVC M.I. | MAT9340086 | (4G2.5)C | 12.0 | 7.5 | 01 |
|               | TPE F    | MAT9440086 | (4G2.5)C | 11.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960640 | (4G2.5)C | 11.5 | 7.5 | 03 |
| 200618 (5 m)  | PVC M.I. | MAT9340087 | (4G4.0)C | 13.5 | 7.5 | 01 |
|               | TPE F    | MAT9440087 | (4G4.0)C | 13.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960641 | (4G4.0)C | 13.5 | 7.5 | 03 |
| 200619 (10 m) | PVC M.I. | MAT9340088 | (4G4.0)C | 13.5 | 7.5 | 01 |
|               | TPE F    | MAT9440088 | (4G4.0)C | 13.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960642 | (4G4.0)C | 13.5 | 7.5 | 03 |
| 200620 (15 m) | PVC M.I. | MAT9340089 | (4G4.0)C | 13.5 | 7.5 | 01 |
|               | TPE F    | MAT9440089 | (4G4.0)C | 13.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960643 | (4G4.0)C | 13.5 | 7.5 | 03 |
| 200621 (20 m) | PVC M.I. | MAT9340090 | (4G4.0)C | 13.5 | 7.5 | 01 |
|               | TPE F    | MAT9440090 | (4G4.0)C | 13.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960644 | (4G4.0)C | 13.5 | 7.5 | 03 |
| 200622 (25 m) | PVC M.I. | MAT9340091 | (4G4.0)C | 13.5 | 7.5 | 01 |
|               | TPE F    | MAT9440091 | (4G4.0)C | 13.5 | 7.5 | 02 |
|               | TPE H*   | MAT9960645 | (4G4.0)C | 13.5 | 7.5 | 03 |



\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No.                         | Cable quality | Part No.   | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|---|---------------|------------|---|------|-------------|-------------------|
|   |               |            |   |      |             |                   |
| <b>Kollmorgen/Danaher Motion Servo cables</b> |               |            |   |      |             |                   |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 89957 (5 m)                                   | PVC O.I.      | MAT9750621 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340024 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850621 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440024 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 89961 (10 m)                                  | PVC O.I.      | MAT9750622 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340025 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850622 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440025 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 89963 (15 m)                                  | PVC O.I.      | MAT9750623 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340026 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850623 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440026 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 89965 (20 m)                                  | PVC O.I.      | MAT9750624 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340027 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850624 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440027 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 89967 (25 m)                                  | PVC O.I.      | MAT9750625 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340028 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850625 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440028 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 89968 (5 m)                                   | PVC O.I.      | MAT9750626 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340029 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850626 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440029 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 89969 (25 m)                                  | PVC O.I.      | MAT9750630 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340033 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850630 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440033 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 89970 (10 m)                                  | PVC O.I.      | MAT9750627 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340030 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850627 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440030 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 89971 (15 m)                                  | PVC O.I.      | MAT9750628 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340031 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850628 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440031 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |



\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No.                         | Cable quality | Part No.   | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|---|---------------|------------|---|------|-------------|-------------------|
|   |               |            |   |      |             |                   |
| <b>Kollmorgen/Danaher Motion Servo cables</b> |               |            |   |      |             |                   |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 89972 (20 m)                                  | PVC O.I.      | MAT9750629 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340032 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850629 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440032 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 90088 (5 m)                                   | PVC O.I.      | MAT9750616 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340019 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850616 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440019 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 90089 (10 m)                                  | PVC O.I.      | MAT9750617 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340020 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850617 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440020 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 90090 (15 m)                                  | PVC O.I.      | MAT9750618 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340021 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850618 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440021 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 90091 (20 m)                                  | PVC O.I.      | MAT9750619 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340022 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850619 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440022 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 90092 (25 m)                                  | PVC O.I.      | MAT9750620 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340023 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850620 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440023 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 102579 (5 m)                                  | PVC O.I.      | MAT9750611 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340014 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850611 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440014 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 102580 (10 m)                                 | PVC O.I.      | MAT9750612 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340015 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850612 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440015 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |



**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image igus® gladly pre-harnesses the cable according to your technical specifications.  
**G** = with green-yellow earth core **x** = without earth core  
 \* Cable qualities: **M.I.** = with inner jacket, **O.I.** = without inner jacket, **F** = flame-retardant, **H** = halogen-free, **OIL** = oil-resistant

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No. | Cable quality | Part No. | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|-----------------------|---------------|----------|---|------|-------------|-------------------|
|                       |               |          | [mm²]   | [mm] | [x d]       |                   |

### Kollmorgen/Danaher Motion Servo cables

#### Basic cable



|               |          |            |                   |      |     |    |
|---------------|----------|------------|-------------------|------|-----|----|
| 102809 (15 m) | PVC O.I. | MAT9750613 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340016 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850613 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440016 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 102810 (20 m) | PVC O.I. | MAT9750614 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340017 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850614 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440017 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 102811 (25 m) | PVC O.I. | MAT9750615 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340018 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850615 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440018 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |

#### Basic cable



|               |          |            |                   |      |     |    |
|---------------|----------|------------|-------------------|------|-----|----|
| 107479 (5 m)  | PVC O.I. | MAT9750606 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340009 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850606 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440009 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107480 (10 m) | PVC O.I. | MAT9750607 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340010 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850607 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440010 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107481 (15 m) | PVC O.I. | MAT9750608 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340011 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850608 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440011 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107482 (20 m) | PVC O.I. | MAT9750609 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340012 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850609 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440012 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107483 (25 m) | PVC O.I. | MAT9750610 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340013 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850610 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440013 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image igus® gladly pre-harnesses the cable according to your technical specifications.

G = with green-yellow earth core x = without earth core

\* Cable qualities: M.I. = with inner jacket, O.I. = without inner jacket, F = flame-retardant, H = halogen-free, OIL = oil-resistant

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No. | Cable quality | Part No. | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|-----------------------|---------------|----------|---|------|-------------|-------------------|
|                       |               |          | [mm²]   | [mm] | [x d]       |                   |

### Kollmorgen/Danaher Motion Servo cables

#### Basic cable



|               |          |            |                   |      |     |    |
|---------------|----------|------------|-------------------|------|-----|----|
| 107491 (5 m)  | PVC O.I. | MAT9750601 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340001 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850601 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440001 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107492 (10 m) | PVC O.I. | MAT9750602 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340005 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850602 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440005 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107493 (15 m) | PVC O.I. | MAT9750603 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340006 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850603 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440006 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107494 (20 m) | PVC O.I. | MAT9750604 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340007 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850604 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440007 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 107495 (25 m) | PVC O.I. | MAT9750605 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340008 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850605 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440008 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |

#### Basic cable



|               |          |            |                   |      |     |    |
|---------------|----------|------------|-------------------|------|-----|----|
| 200462 (5 m)  | PVC O.I. | MAT9750631 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340034 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850631 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440034 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 200463 (10 m) | PVC O.I. | MAT9750632 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340035 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850632 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440035 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |
| 200464 (15 m) | PVC O.I. | MAT9750633 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 04 |
|               | PVC M.I. | MAT9340036 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 05 |
|               | PUR O.I. | MAT9850633 | (4G1.5+(2x1.5)C)C | 12.0 | 10  | 06 |
|               | PUR M.I. | MAT9440036 | (4G1.5+(2x1.5)C)C | 13.0 | 7.5 | 07 |

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No.                         | Cable quality | Part No.   | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|---|---------------|------------|---|------|-------------|-------------------|
|   |               |            | [mm²]   | [mm] | [x d]       |                   |
| <b>Kollmorgen/Danaher Motion Servo cables</b> |               |            |   |      |             |                   |
| <b>Basic cable</b>                            |               |            |   |      |             |                   |
| 200465 (20 m)                                 | PVC O.I.      | MAT9750634 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340037 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850634 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440037 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 200466 (25 m)                                 | PVC O.I.      | MAT9750635 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340038 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850635 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440038 | (4G1.5+(2x1.5)C)C                                   | 13.0 | 7.5         | 07                |
| 200474 (5 m)                                  | PVC O.I.      | MAT9750636 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340039 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850636 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440039 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 200475 (10 m)                                 | PVC O.I.      | MAT9750637 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340040 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850637 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440040 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 200476 (15 m)                                 | PVC O.I.      | MAT9750638 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340041 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850638 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440041 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 200477 (20 m)                                 | PVC O.I.      | MAT9750639 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340042 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850639 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440042 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 200478 (25 m)                                 | PVC O.I.      | MAT9750640 | (4G2.5+(2x1.5)C)C                                   | 14.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340043 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850640 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440043 | (4G2.5+(2x1.5)C)C                                   | 14.5 | 7.5         | 07                |
| 200623 (5 m)                                  | PVC O.I.      | MAT9750641 | (4G4.0+(2x1.5)C)C                                   | 15.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340044 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850641 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440044 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 07                |
| 200624 (10 m)                                 | PVC O.I.      | MAT9750642 | (4G4.0+(2x1.5)C)C                                   | 15.0 | 10          | 04                |
|   | PVC M.I.      | MAT9340045 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 05                |
|   | PUR O.I.      | MAT9850642 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|   | PUR M.I.      | MAT9440045 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 07                |



\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No.                          | Cable quality | Part No.   | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|--|---------------|------------|---|------|-------------|-------------------|
|  |               |            | [mm²]   | [mm] | [x d]       |                   |
| <b>Kollmorgen/Danaher Motion Servo cables</b>  |               |            |   |      |             |                   |
| <b>Basic cable</b>                             |               |            |   |      |             |                   |
| 200625 (15 m)                                  | PVC O.I.      | MAT9750643 | (4G4.0+(2x1.5)C)C                                   | 15.0 | 10          | 04                |
|  | PVC M.I.      | MAT9340046 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 05                |
|  | PUR O.I.      | MAT9850643 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|  | PUR M.I.      | MAT9440046 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 07                |
| 200626 (20 m)                                  | PVC O.I.      | MAT9750644 | (4G4.0+(2x1.5)C)C                                   | 15.0 | 10          | 04                |
|  | PVC M.I.      | MAT9340047 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 05                |
|  | PUR O.I.      | MAT9850644 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|  | PUR M.I.      | MAT9440047 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 07                |
| 200627 (25 m)                                  | PVC O.I.      | MAT9750645 | (4G4.0+(2x1.5)C)C                                   | 15.0 | 10          | 04                |
|  | PVC M.I.      | MAT9340048 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 05                |
|  | PUR O.I.      | MAT9850645 | (4G1.5+(2x1.5)C)C                                   | 12.0 | 10          | 06                |
|  | PUR M.I.      | MAT9440048 | (4G4.0+(2x1.5)C)C                                   | 16.0 | 7.5         | 07                |
| <b>Kollmorgen/Danaher Motion Signal cables</b> |               |            |   |      |             |                   |
| <b>Basic cable</b>                             |               |            |   |      |             |                   |
| 107915 (5 m)                                   | PVC           | MAT9320004 | (8x(2x0.25))C                                       | 10.5 | 7.5         | 14                |
|  | TPE H*        | MAT9330004 | (8x(2x0.34))C                                       | 13.0 | 6.8         | 16                |
| 107916 (10 m)                                  | PVC           | MAT9320017 | (8x(2x0.25))C                                       | 10.5 | 7.5         | 14                |
|  | TPE H*        | MAT9330017 | (8x(2x0.34))C                                       | 13.0 | 6.8         | 16                |
| 107917 (15 m)                                  | PVC           | MAT9320018 | (8x(2x0.25))C                                       | 10.5 | 7.5         | 14                |
|  | TPE H*        | MAT9330018 | (8x(2x0.34))C                                       | 13.0 | 6.8         | 16                |
| 107918 (20 m)                                  | PVC           | MAT9320019 | (8x(2x0.25))C                                       | 10.5 | 7.5         | 14                |
|  | TPE H*        | MAT9330019 | (8x(2x0.34))C                                       | 13.0 | 6.8         | 16                |
| 107919 (25 m)                                  | PVC           | MAT9320020 | (8x(2x0.25))C                                       | 10.5 | 7.5         | 14                |
|  | TPE H*        | MAT9330020 | (8x(2x0.34))C                                       | 13.0 | 6.8         | 16                |
| 84972 (5 m)                                    | PVC           | MAT9320001 | (4x(2x0.25))C                                       | 8.0  | 7.5         | 14                |
|  | PUR M.I.      | MAT9840601 | (4x(2x0.25))C                                       | 9.0  | 10          | 15                |
| 84973 (10 m)                                   | TPE H*        | MAT9330001 | (4x(2x0.25))C                                       | 8.5  | 6.8         | 16                |
|  | PVC           | MAT9320009 | (4x(2x0.25))C                                       | 8.0  | 7.5         | 14                |
| 84974 (15 m)                                   | PUR M.I.      | MAT9840602 | (4x(2x0.25))C                                       | 9.0  | 10          | 15                |
|  | TPE H*        | MAT9330009 | (4x(2x0.25))C                                       | 8.5  | 6.8         | 16                |
| 84975 (20 m)                                   | PVC           | MAT9320010 | (4x(2x0.25))C                                       | 8.0  | 7.5         | 14                |
|  | PUR M.I.      | MAT9840603 | (4x(2x0.25))C                                       | 9.0  | 10          | 15                |
| 84976 (25 m)                                   | TPE H*        | MAT9330010 | (4x(2x0.25))C                                       | 8.5  | 6.8         | 16                |
|  | PVC           | MAT9320011 | (4x(2x0.25))C                                       | 8.0  | 7.5         | 14                |
| 84977 (30 m)                                   | PUR M.I.      | MAT9840604 | (4x(2x0.25))C                                       | 9.0  | 10          | 15                |
|  | TPE H*        | MAT9330011 | (4x(2x0.25))C                                       | 8.5  | 6.8         | 16                |



Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image igus® gladly pre-harnesses the cable according to your technical specifications.

G = with green-yellow earth core x = without earth core

\* Cable qualities: M.I. = with inner jacket, O.I. = without inner jacket, F = flame-retardant, H = halogen-free, OIL = oil-resistant



\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No. | Cable quality | Part No. | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|-----------------------|---------------|----------|---|------|-------------|-------------------|
|                       |               |          | [mm²]   | [mm] | [x d]       |                   |

### Kollmorgen/Danaher Motion Signal cables

#### Basic cable



|              |          |            |               |      |     |    |
|--------------|----------|------------|---------------|------|-----|----|
| 87655 (25 m) | PVC      | MAT9320012 | (4x(2x0.25))C | 8.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840605 | (4x(2x0.25))C | 9.0  | 10  | 15 |
|              | TPE H*   | MAT9330012 | (4x(2x0.25))C | 8.5  | 6.8 | 16 |
| 90287 (5 m)  | PVC      | MAT9320002 | (8x(2x0.25))C | 10.5 | 7.5 | 14 |
|              | TPE H*   | MAT9330002 | (8x(2x0.34))C | 13.0 | 6.8 | 16 |
| 91019 (10 m) | PVC      | MAT9320013 | (8x(2x0.25))C | 10.5 | 7.5 | 14 |
|              | TPE H*   | MAT9330013 | (8x(2x0.34))C | 13.0 | 6.8 | 16 |
| 91807 (20 m) | PVC      | MAT9320015 | (8x(2x0.25))C | 10.5 | 7.5 | 14 |
|              | TPE H*   | MAT9330015 | (8x(2x0.34))C | 13.0 | 6.8 | 16 |
| 91811 (15 m) | PVC      | MAT9320014 | (8x(2x0.25))C | 10.5 | 7.5 | 14 |
|              | TPE H*   | MAT9330014 | (8x(2x0.34))C | 13.0 | 6.8 | 16 |
| 92205 (25 m) | PVC      | MAT9320016 | (8x(2x0.25))C | 10.5 | 7.5 | 14 |
|              | TPE H*   | MAT9330016 | (8x(2x0.34))C | 13.0 | 6.8 | 16 |

#### Basic cable



|              |          |            |               |      |     |    |
|--------------|----------|------------|---------------|------|-----|----|
| 85034 (5 m)  | PVC      | MAT9320007 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840606 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330007 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |
| 85035 (10 m) | PVC      | MAT9320021 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840607 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330021 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |
| 85036 (15 m) | PVC      | MAT9320022 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840608 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330022 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |
| 85037 (20 m) | PVC      | MAT9320023 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840609 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330023 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |

#### Basic cable



|              |          |            |               |      |     |    |
|--------------|----------|------------|---------------|------|-----|----|
| 85039 (5 m)  | PVC      | MAT9320008 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840610 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330008 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |
| 85040 (10 m) | PVC      | MAT9320024 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840611 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330024 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image igus® gladly pre-harnesses the cable according to your technical specifications.

G = with green-yellow earth core x = without earth core

\* Cable qualities: M.I. = with inner jacket, O.I. = without inner jacket, F = flame-retardant, H = halogen-free, OIL = oil-resistant

\* Technical information on the cable quality: ► page 498-501

| Manufacturer Part No. | Cable quality | Part No. | Number of cores and conductor nominal cross section | Ø    | Bend radius | chain-flex® cable |
|-----------------------|---------------|----------|---|------|-------------|-------------------|
|                       |               |          | [mm²]   | [mm] | [x d]       |                   |

### Kollmorgen/Danaher Motion Signal cables

#### Basic cable



|              |          |            |               |      |     |    |
|--------------|----------|------------|---------------|------|-----|----|
| 85041 (15 m) | PVC      | MAT9320025 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840612 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330025 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |
| 85042 (20 m) | PVC      | MAT9320026 | (6x(2x0.25))C | 9.0  | 7.5 | 14 |
|              | PUR M.I. | MAT9840613 | (6x(2x0.25))C | 10.0 | 10  | 15 |
|              | TPE H*   | MAT9330026 | (6x(2x0.25))C | 10.0 | 6.8 | 16 |