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# CABLES FOR SERVO DRIVES



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# ORDER CODE

|               | 1   | 2   | 3 | 4 | 5 | 6   | 7 | 8   |   |      |   |    |
|---------------|-----|-----|---|---|---|-----|---|-----|---|------|---|----|
| Order example | CBM | 015 | H | B | - | C01 | - | D01 | - | 0050 | - | 00 |

## Type

|     |                |
|-----|----------------|
| CBM | Motor cable    |
| CBF | Feedback cable |

## Cross section motor cable / Feedback type

|     |                      |
|-----|----------------------|
| 007 | 0.75 mm <sup>2</sup> |
| 015 | 1.5 mm <sup>2</sup>  |
| 025 | 2.5 mm <sup>2</sup>  |
| 040 | 4.0 mm <sup>2</sup>  |
| 060 | 6.0 mm <sup>2</sup>  |
| RE0 | Resolver             |

## Raw cable

|   |                                    |
|---|------------------------------------|
| S | Standard                           |
| H | Highflex                           |
| T | High Temperature (for ATEX Motors) |

## Equipment Type

|   |                  |
|---|------------------|
| 0 | Standard         |
| B | With brake       |
| D | With brake & DSL |

## Type of motor connector

|     |  |
|-----|--|
| C01 | SMH Motor Power – M15                                |
| C02 | SMH or MH– M23                                       |
| C04 | NX Motor Power – M23                                 |
| C06 | SMH or MH Motor Resolver – M23                       |
| C07 | NX2-8 – Resolver Connector – M23                     |
| C11 | M15 Hiperface DSL Feedback+Power                     |
| C12 | M23 Hiperface DSL Feedback +Power –SMH, NX           |
| C13 | M40 Hiperface DSL Feedback +Power – MH               |
| C14 | SMH Motor Resolver – M15                             |
| T02 | SMx82-100-115 & MB105-205 Motor Power - Terminal Box |
| T03 | EX/EY Motor Power with Hiperface DSL – Terminal Box  |
| T04 | EX Motor Power – Terminal Box                        |

## Type of drive connector

|     |  |
|-----|--|
| D01 | PSD1S, PSD1M18, C3                     |
| D02 | PSD1MW1-3 (w/o PSD1MW18)               |
| D03 | PSD1S or PSD1M – Resolver/... Feedback |
| D05 | C3 (Compax3) – Resolver Feedback       |

## Length

|      |      |
|------|------|
| 0030 | 3 m  |
| 0050 | 5 m  |
| 0070 | 7 m  |
| 0100 | 10 m |
| 0150 | 15 m |
| 0200 | 20 m |
| ...  | ...  |

## Customization/Special

|    |          |
|----|----------|
| 00 | Standard |
|----|----------|

# TECHNICAL DATA

## Motor Power Cables

|                              | CBM015HB                       | CBM025HB            | CBM040HB          | CBM060HB          |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------|
|                              | (4G1.5 + (2x1.5)C)C            | (4G2.5 + (2x1.5)C)C | (4G4 + (2x1.5)C)C | (4G6 + (2x1.5)C)C |
| Min bending radius, static   | 58 mm                          | 67 mm               | 74 mm             | 83.5 mm           |
| Min bending radius, dynamic  | 87 mm                          | 100.5 mm            | 111 mm            | 125.25 mm         |
| Min bending cycles           | 10 Mio.                        |                     |                   |                   |
| Maximum acceleration         | 50 m/s <sup>2</sup>            |                     |                   |                   |
| Maximum speed                | 300 m/min                      |                     |                   |                   |
| Diameter                     | 11.6 mm                        | 13.4 mm             | 14.8 mm           | 16.7 mm           |
| Outer sheath                 | PUR Orange RAL 2003            |                     |                   |                   |
| Insulation                   | Polyolefin                     |                     |                   |                   |
| Halogen free                 | yes                            |                     |                   |                   |
| Temperature range, operating | -30 ... 80 °C                  |                     |                   |                   |
| Temperature range, storage   | -50 ... 80 °C                  |                     |                   |                   |
| Oil resistance               | EN 50363-10-2                  |                     |                   |                   |
| Flame retardant              | IEC/EN 60332-1-2; FT1; UL 1581 |                     |                   |                   |
| Rated voltage U0/U           | 0.6/1 kV                       |                     |                   |                   |

## DSL Cables

|                              | CBM007HD                               | CBM015HD                              | CBM025HD                           | CBM040HD                         | CBM060HD                         |
|------------------------------|--|---------------------------------------|------------------------------------|----------------------------------|----------------------------------|
|                              | (4G0.75+(2x0.34)H2<br>+(2xAWG26)H2H)H2 | (4G1.5+(2x0.75)H2<br>+(2xAWG22)H2H)H2 | (4G2.5+(2x1)H2+<br>(2xAWG22)H2H)H2 | (4G4+(2x1)H2+<br>(2xAWG22)H2H)H2 | (4G6+(2x1)H2+<br>(2xAWG22)H2H)H2 |
| Min bending radius, static   | 53 mm                                  | 66 mm                                 | 71.5 mm                            | 80 mm                            | 90.5 mm                          |
| Min bending radius, dynamic  | 74.2 mm                                | 99 mm                                 | 107.25 mm                          | 120 mm                           | 135.75 mm                        |
| Min bending cycles           | 5 Mio.                                 |                                       |                                    |                                  |                                  |
| Maximum acceleration         | 50 m/s <sup>2</sup>                    | 50 m/s <sup>2</sup>                   | 50 m/s <sup>2</sup>                | 30 m/s <sup>2</sup>              | 50 m/s <sup>2</sup>              |
| Maximum speed                | 300 m/min                              |                                       |                                    |                                  |                                  |
| Diameter                     | 10.6 mm                                | 13.2 mm                               | 14.3 mm                            | 16 mm                            | 18.1 mm                          |
| Outer sheath                 | PUR Orange RAL 2003                    |                                       |                                    |                                  |                                  |
| Insulation                   | Polyolefin                             |                                       |                                    |                                  |                                  |
| Halogen free                 | yes                                    |                                       |                                    |                                  |                                  |
| Temperature range, operating | -40 ... 80 °C                          |                                       |                                    |                                  |                                  |
| Temperature range, storage   | -40 ... 80 °C                          |                                       |                                    |                                  |                                  |
| Oil resistance               | EN 50363-10-2                          |                                       |                                    |                                  |                                  |
| Flame retardant              | IEC/EN 60332-1-2; FT1; UL 1581         |                                       |                                    |                                  |                                  |
| Rated voltage U0/U           | 0.6/1 kV                               |                                       |                                    |                                  |                                  |
| Test voltage                 | 3 kV                                   |                                       |                                    |                                  |                                  |

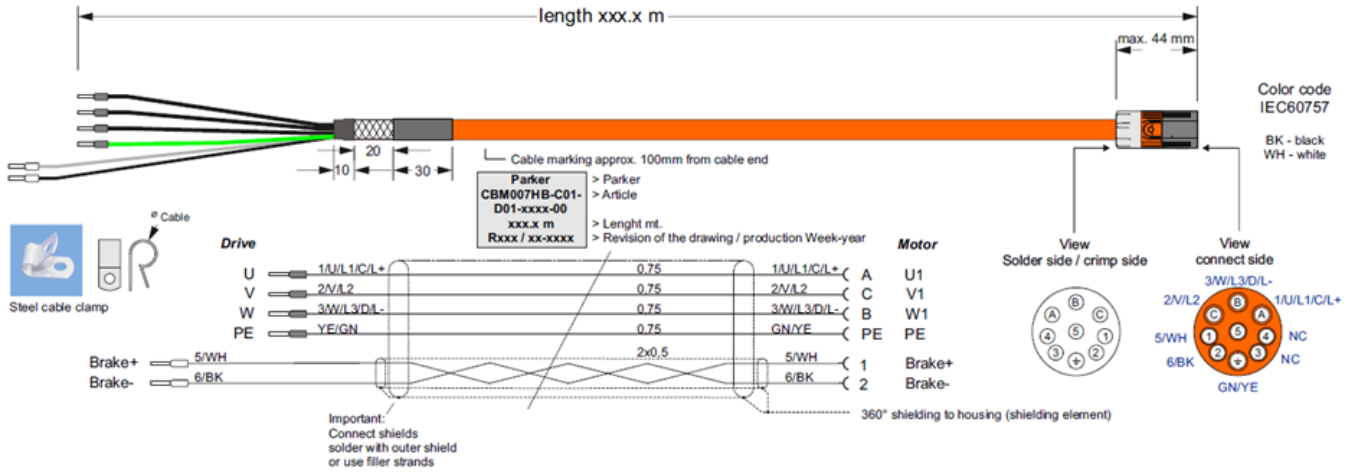
## Feedback Cables

|                              | CBFRE0H0                       |
|------------------------------|--------------------------------|
|                              | (3x(2x0.14)C+2x(0.5)C)C        |
| Min bending radius, dynamic  | 83 mm                          |
| Min bending cycles           | 5 Mio.                         |
| Maximum acceleration         | 20 m/s <sup>2</sup>            |
| Maximum speed                | 240 m/min                      |
| Diameter                     | 8.3 mm                         |
| Outer sheath                 | PUR Green RAL 6018             |
| Insulation                   | TPE-E                          |
| Halogen free                 | yes                            |
| Temperature range, operating | -30 ... 80 °C                  |
| Temperature range, storage   | -40 ... 80 °C                  |
| Oil resistance               | EN 50363-10-2                  |
| Flame retardant              | IEC/EN 60332-1-2; FT1; UL 1581 |
| Rated voltage U0/U           | 30 V                           |
| Test voltage                 | 1.5 kV                         |

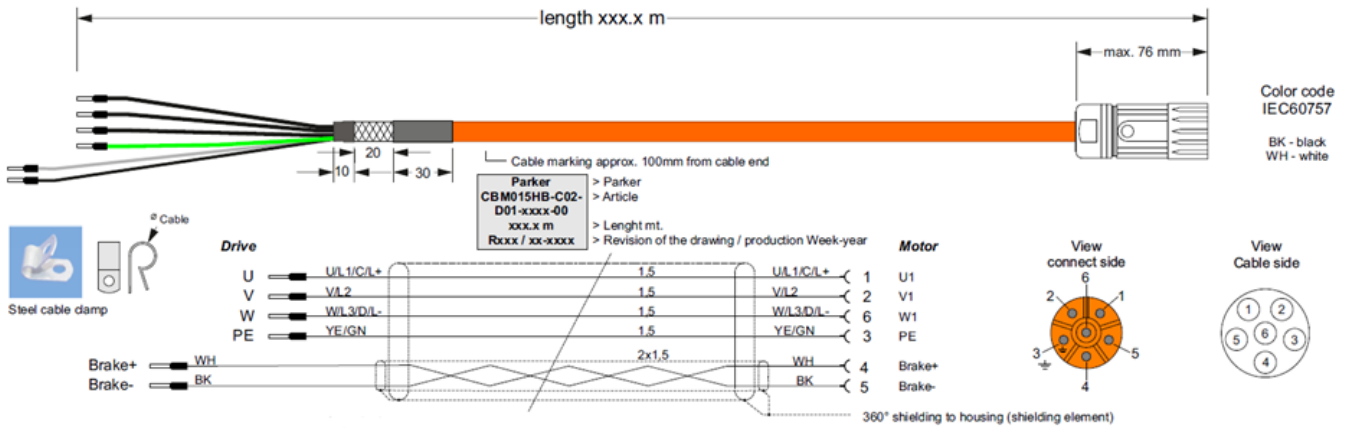
# DRAWINGS AND PIN ASSIGNMENT

## Motor Power Cables

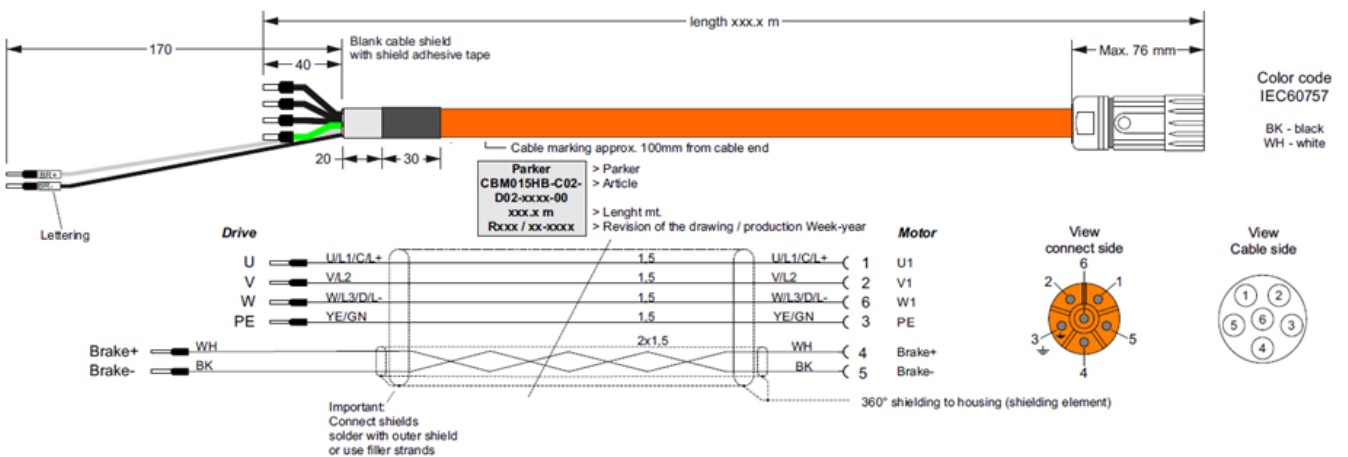
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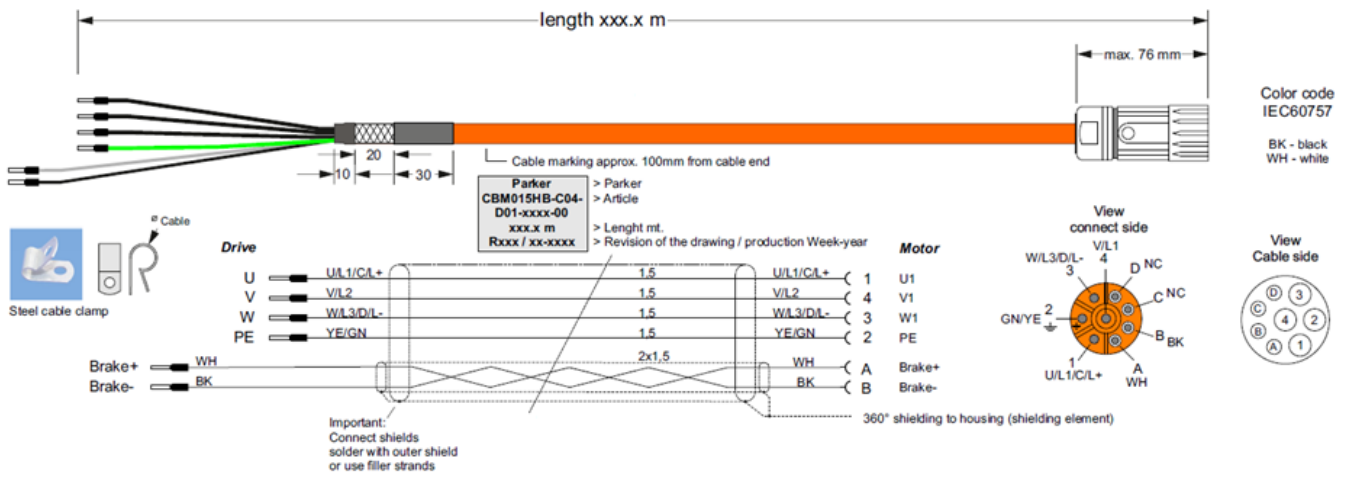
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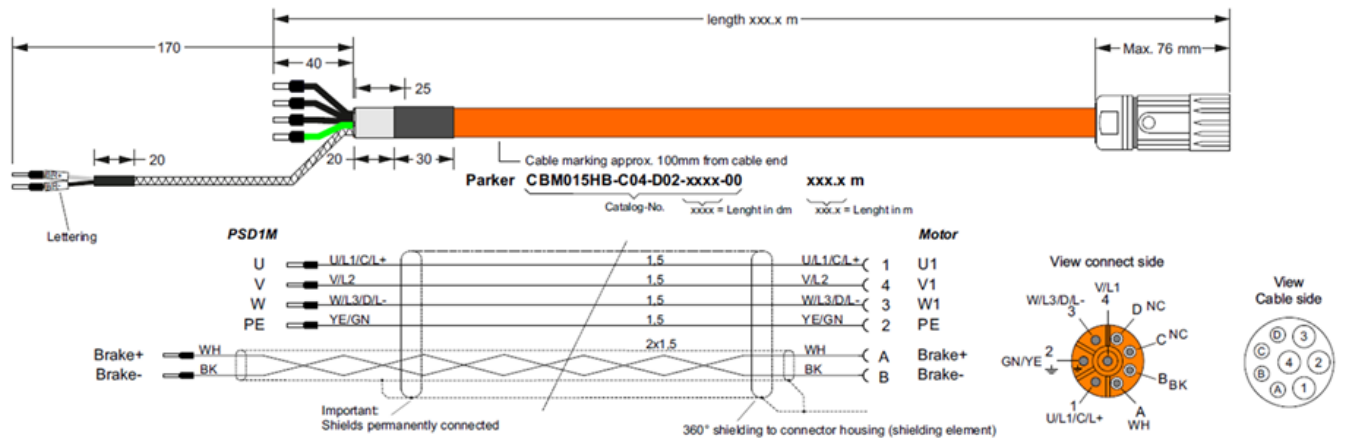
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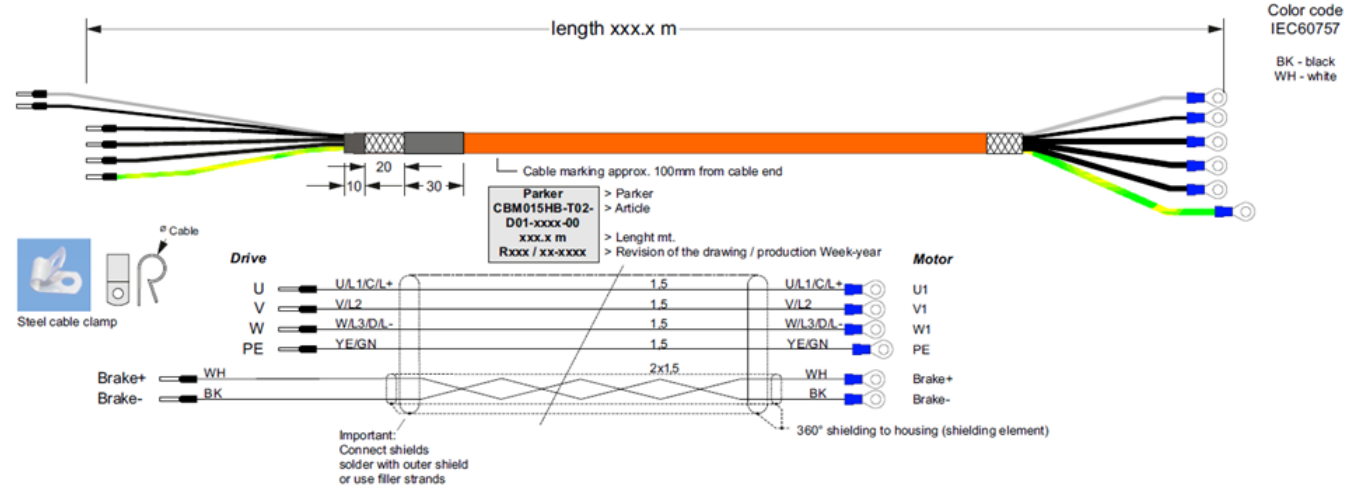
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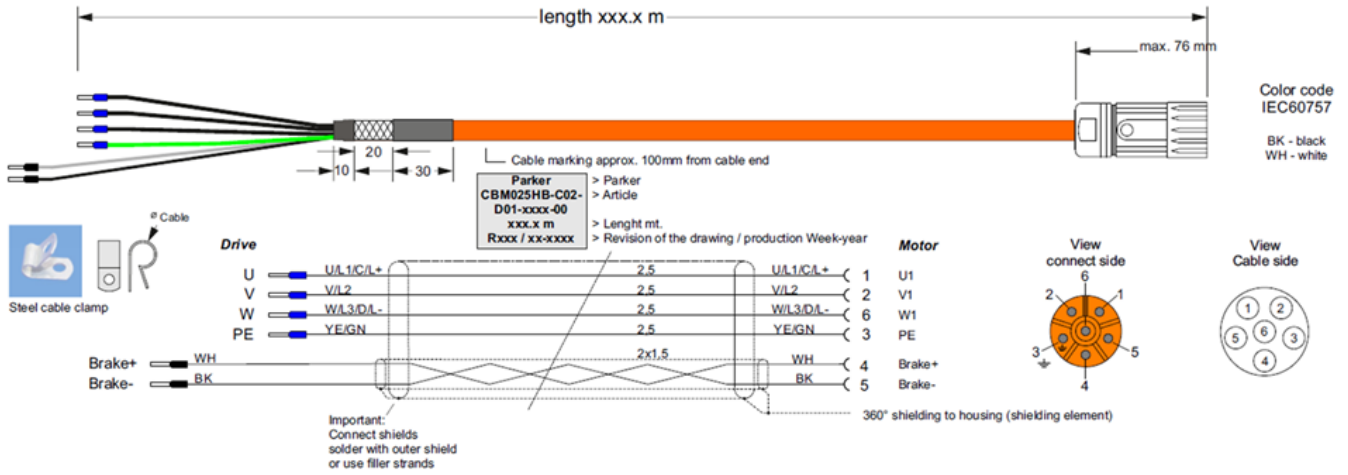
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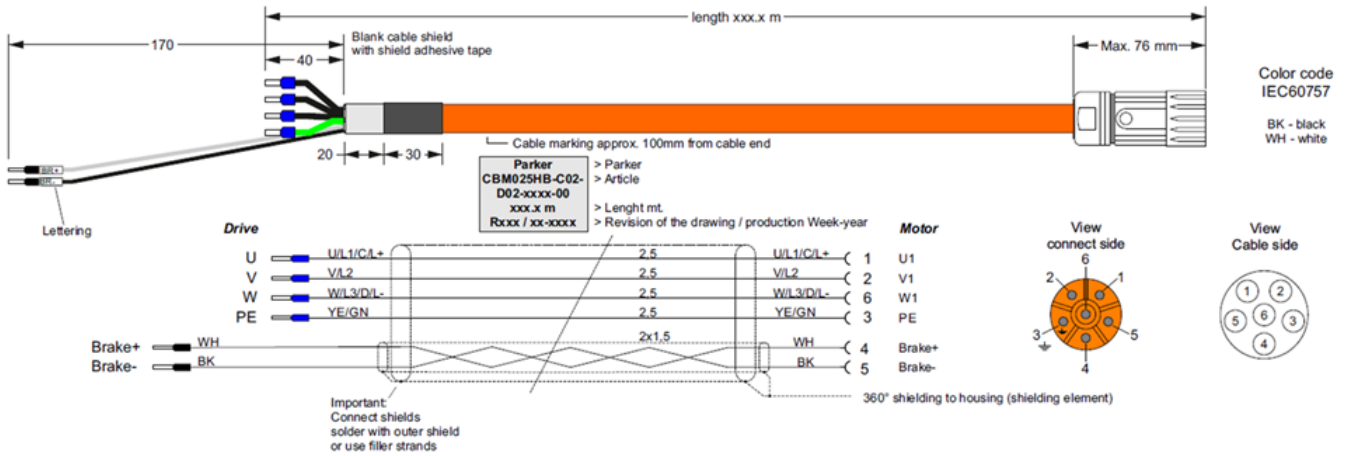
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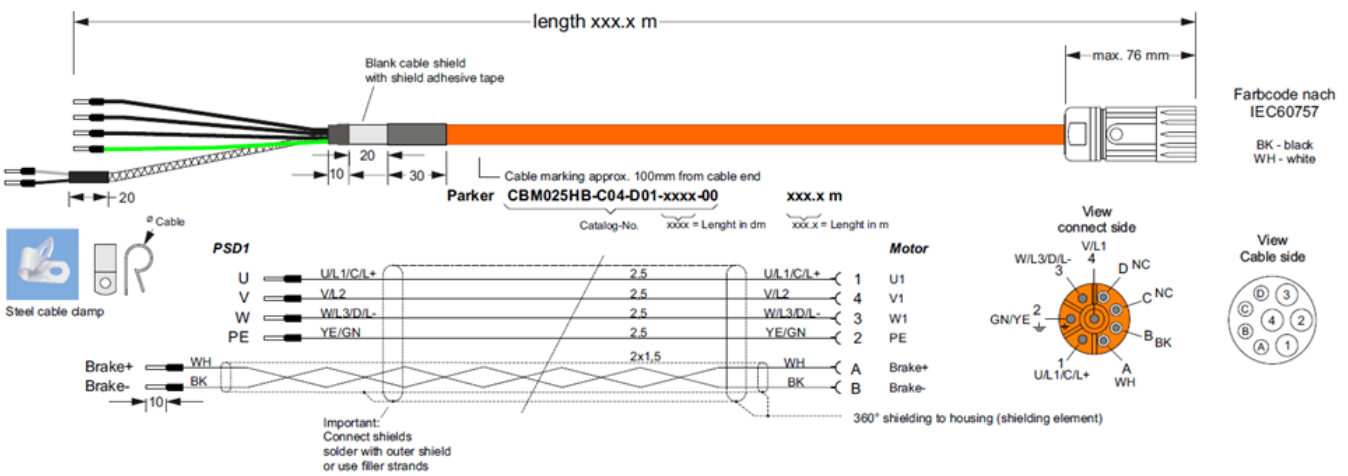
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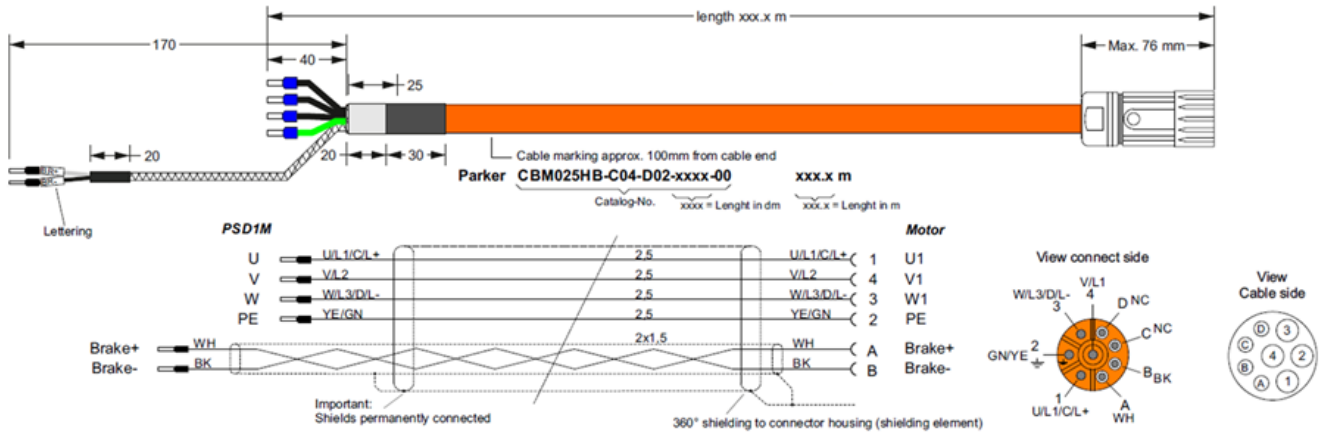


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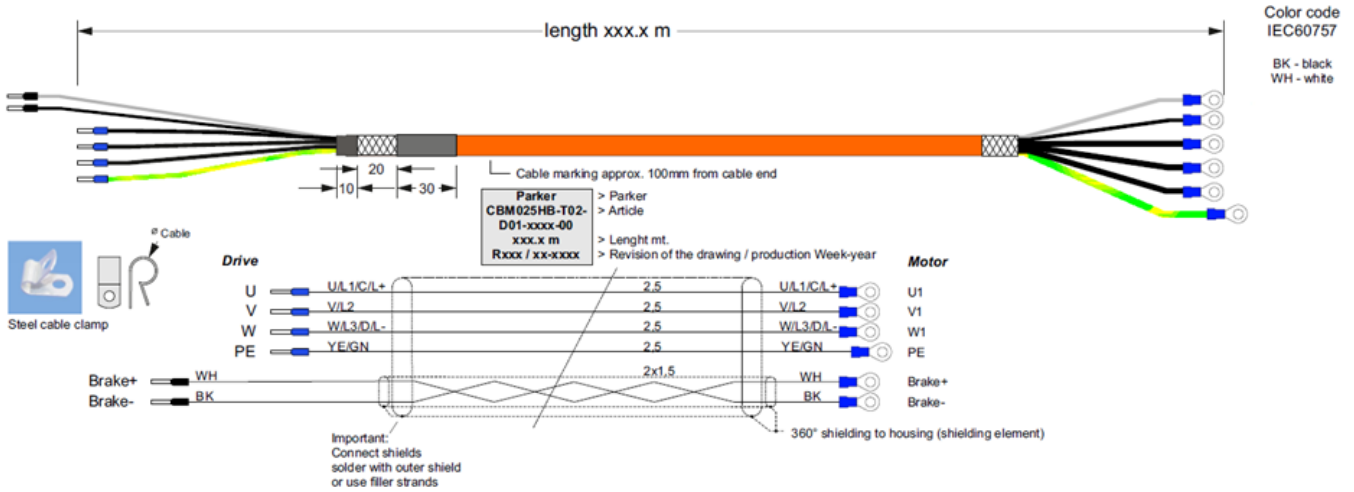




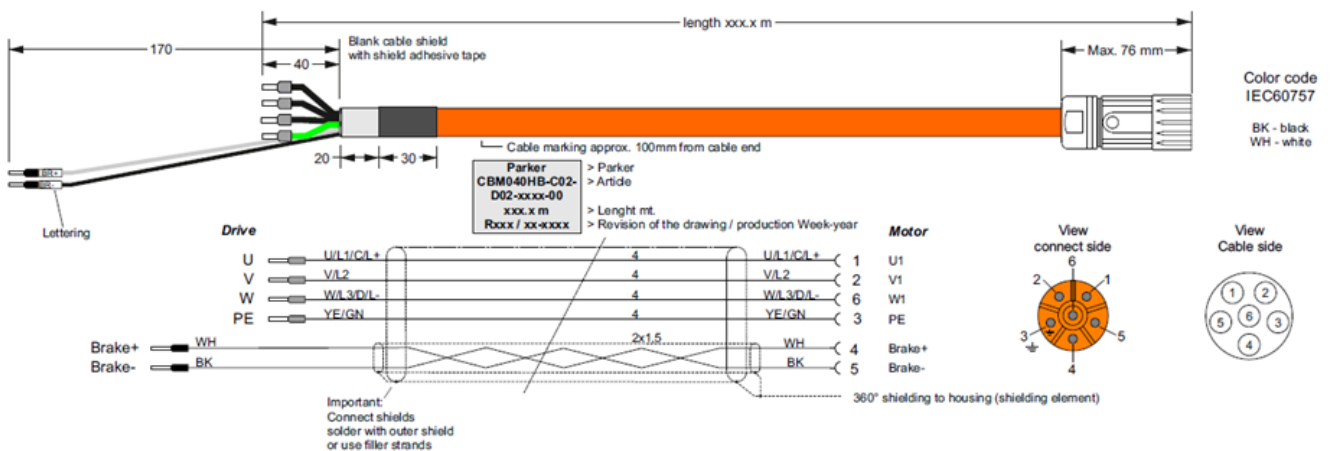
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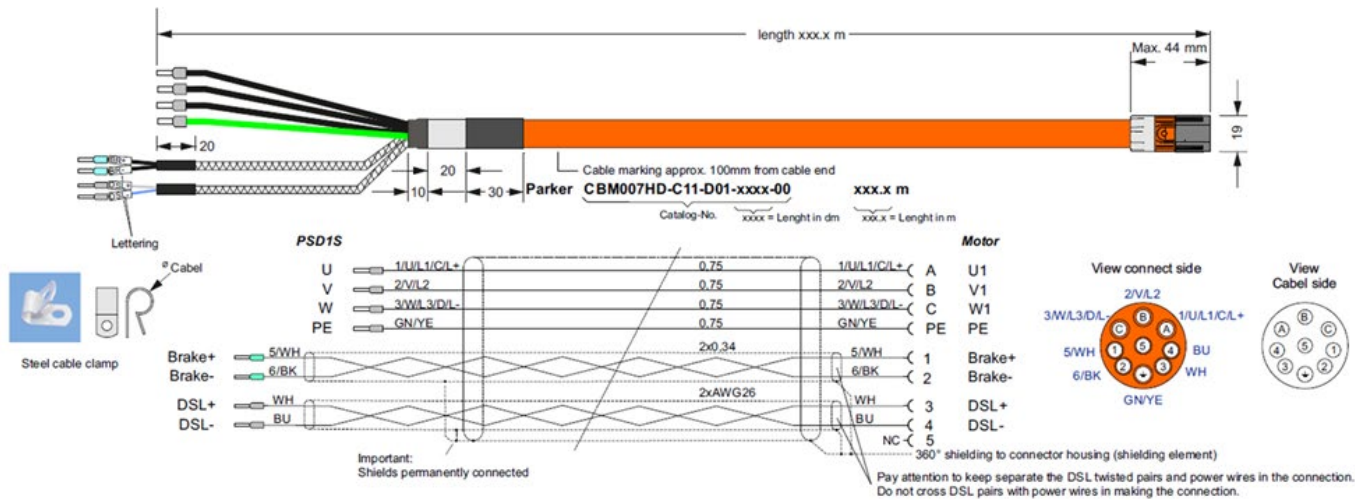


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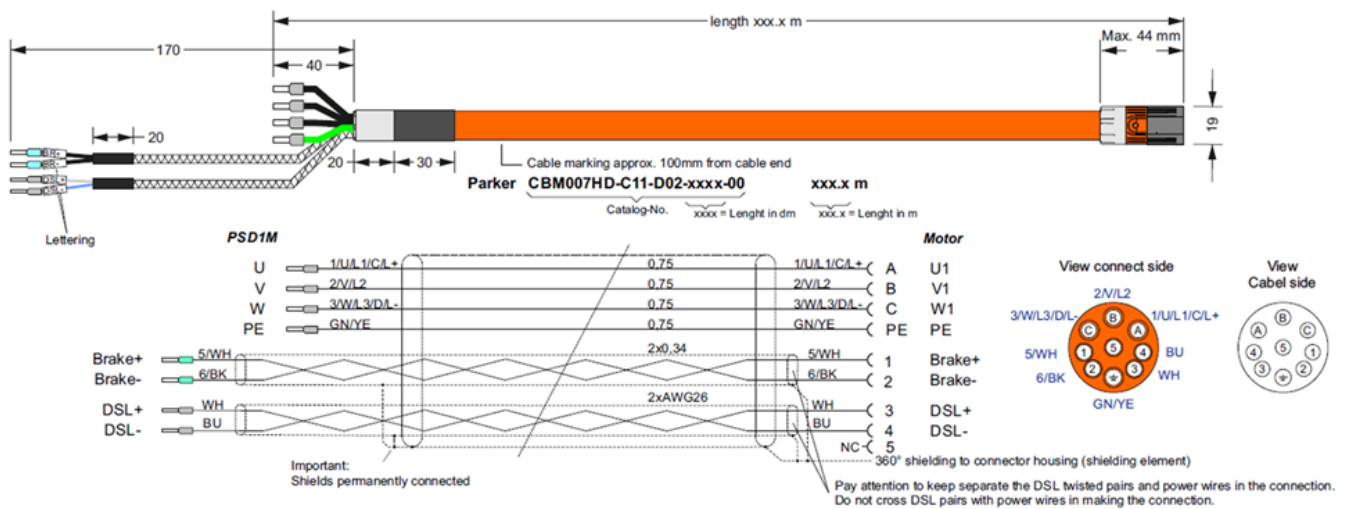


# DSL Cables

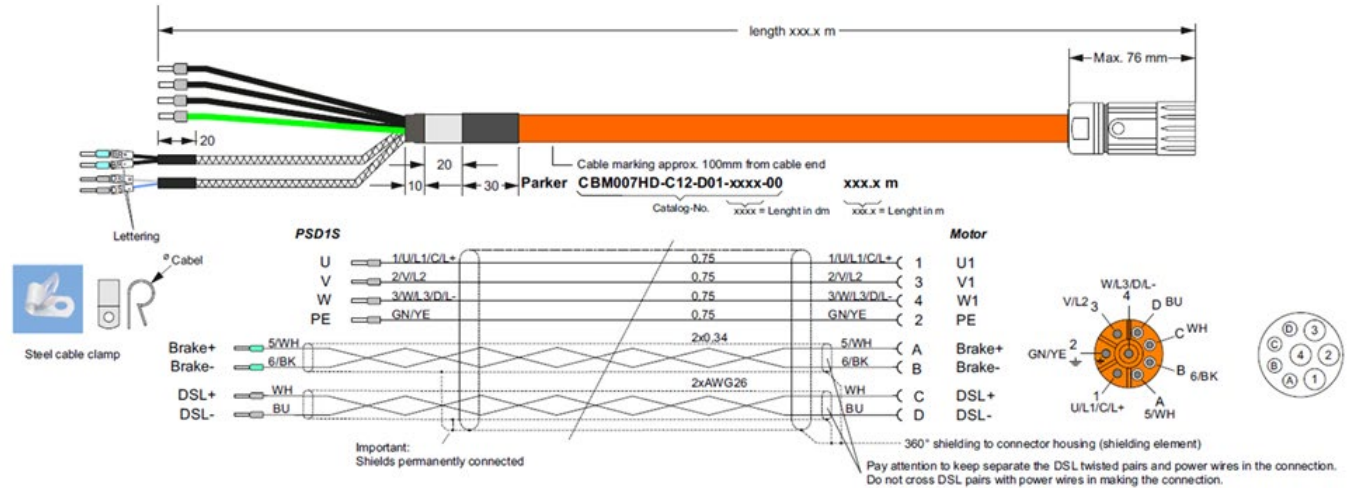
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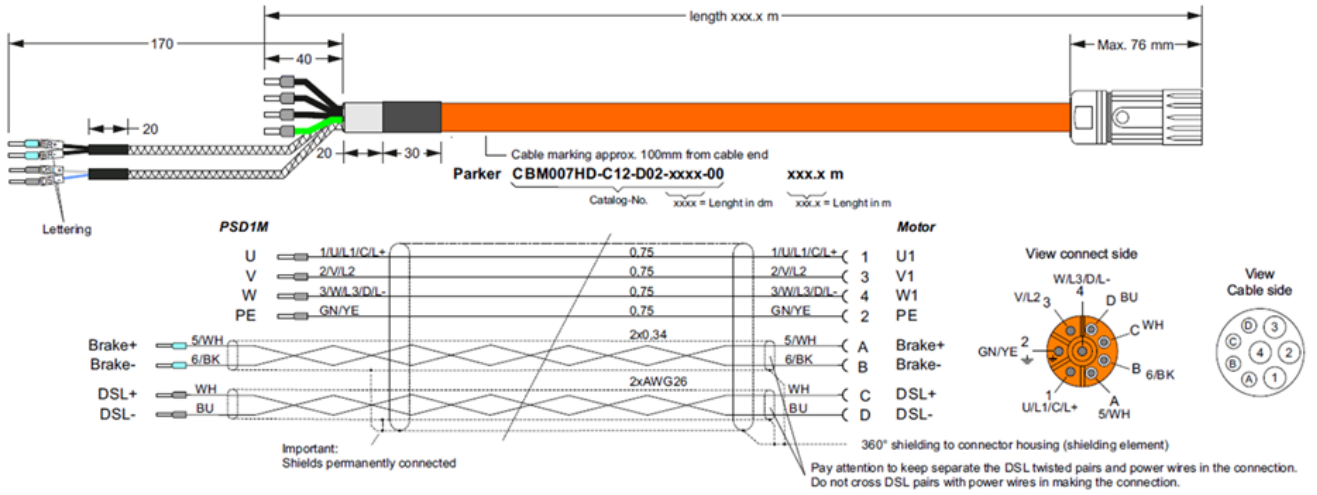
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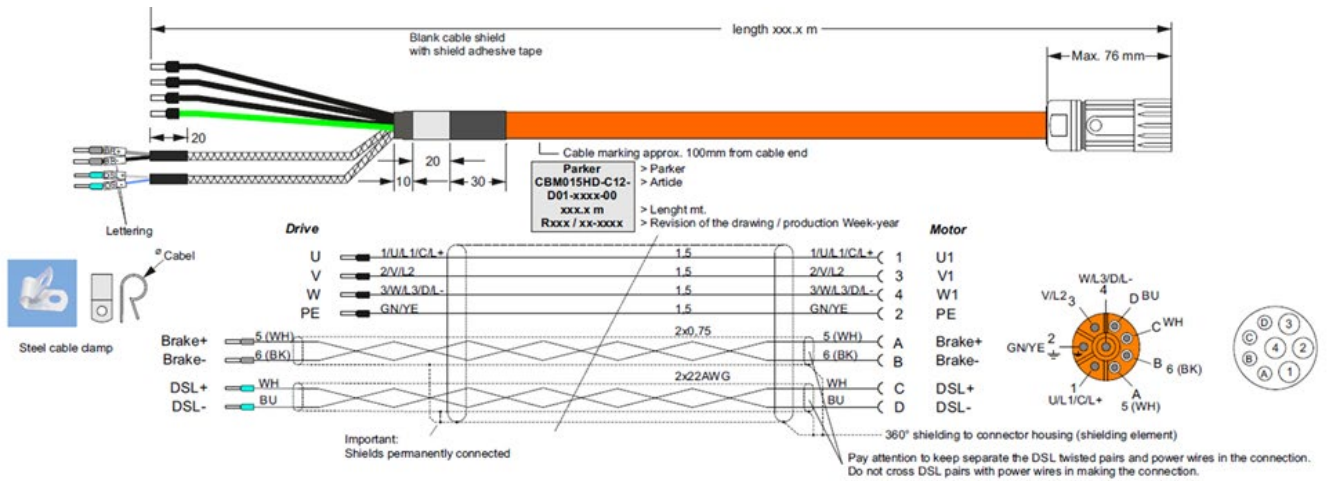
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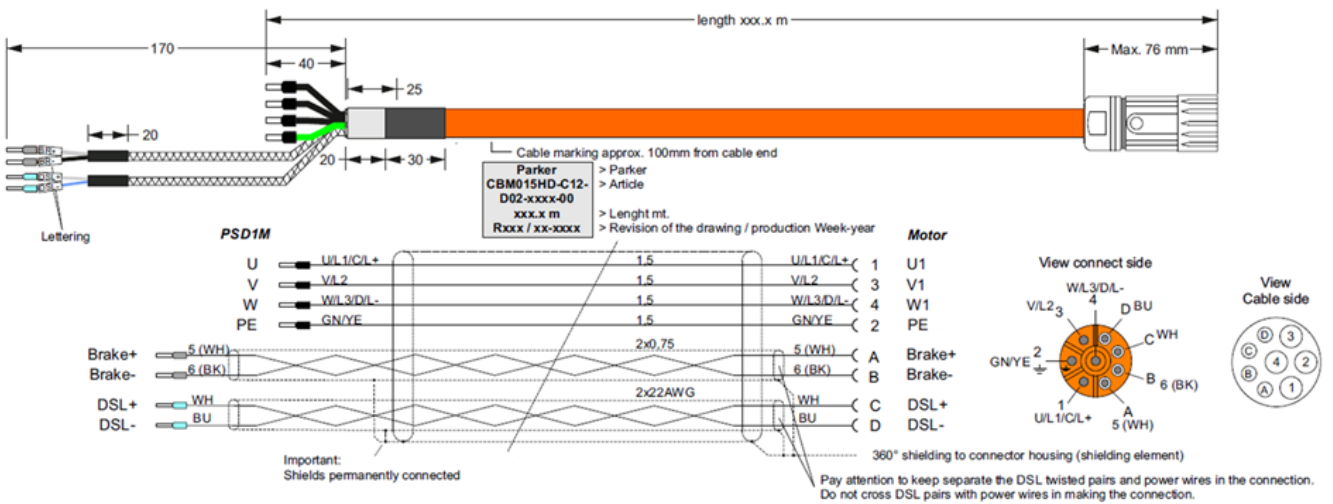
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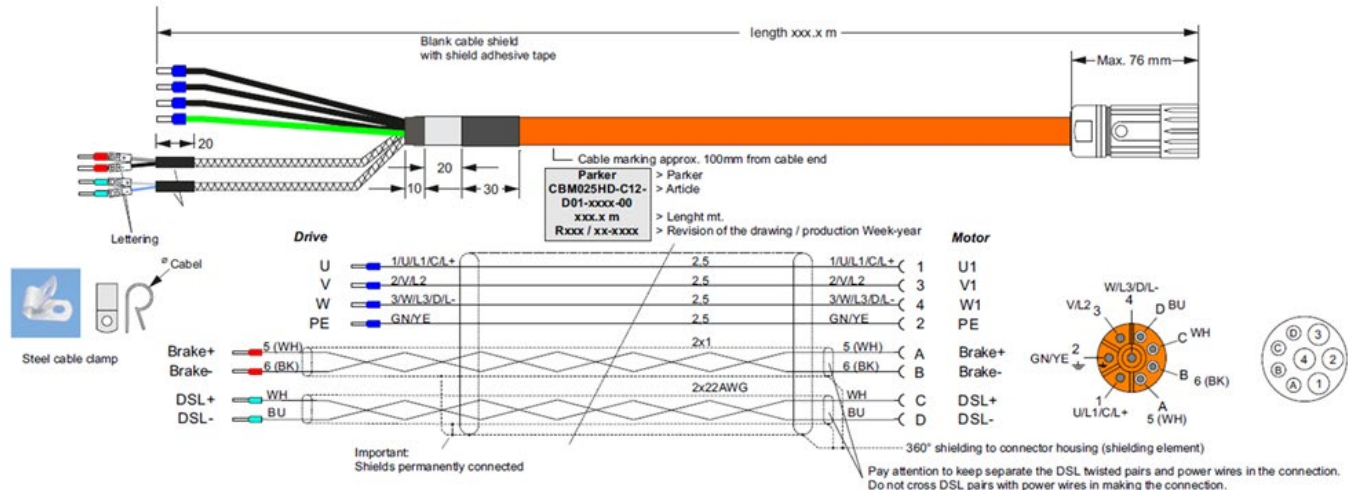
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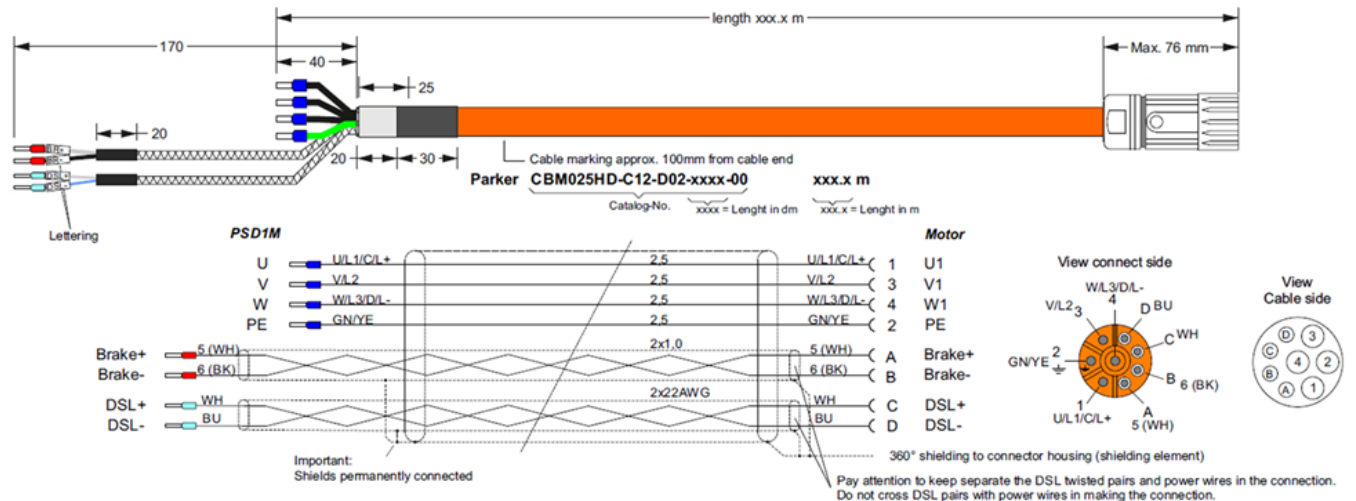
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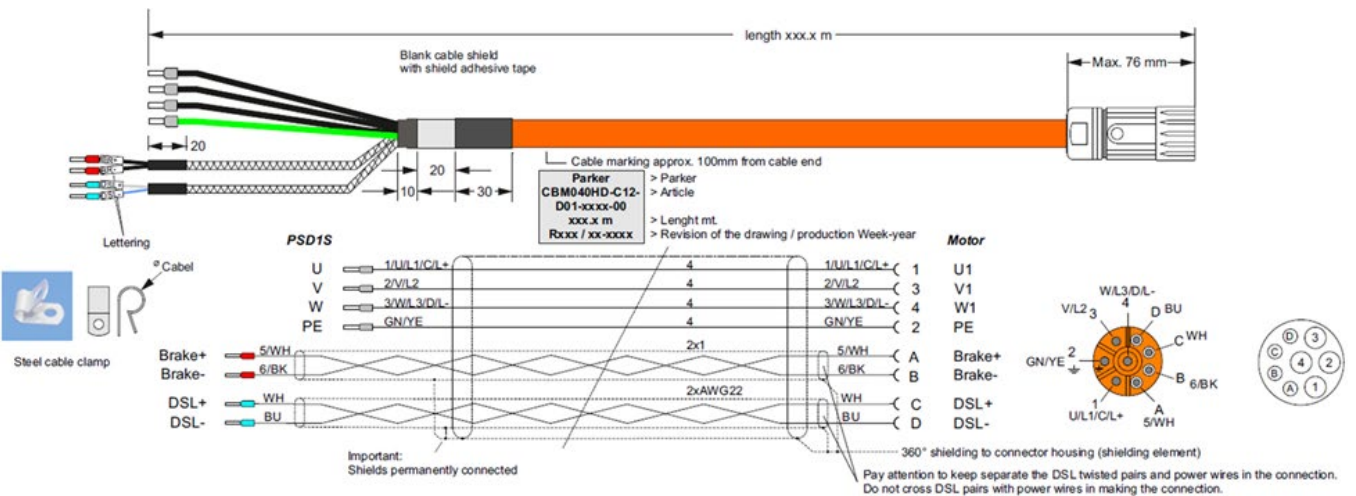
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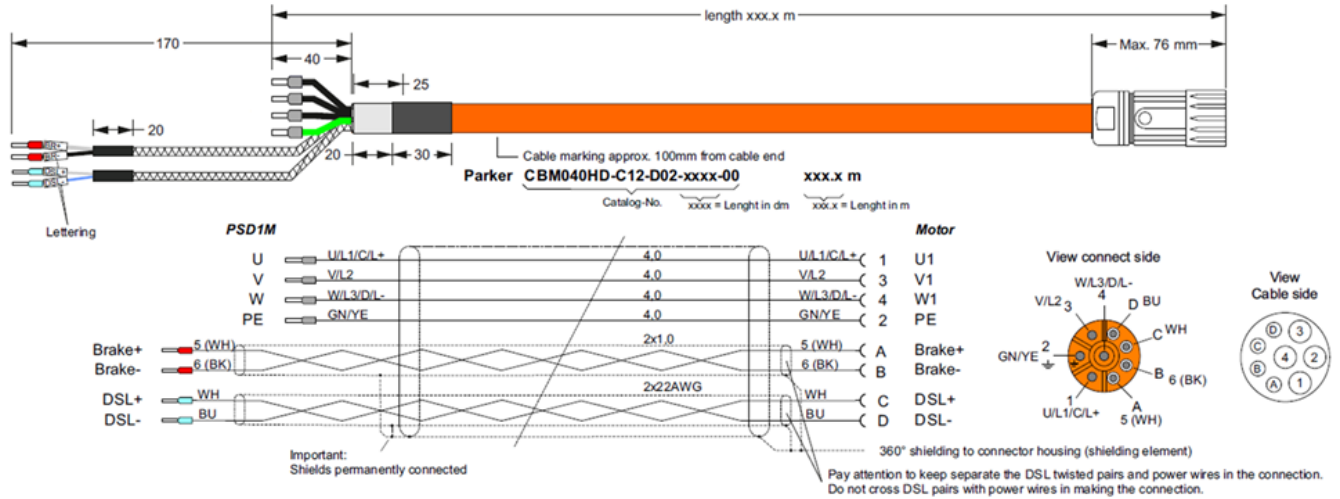
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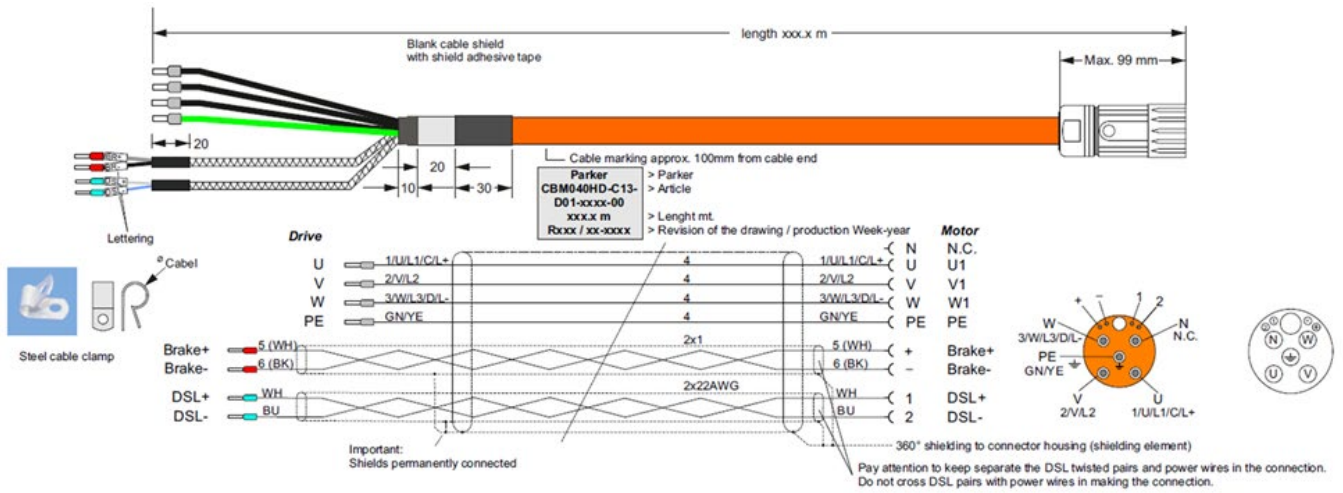
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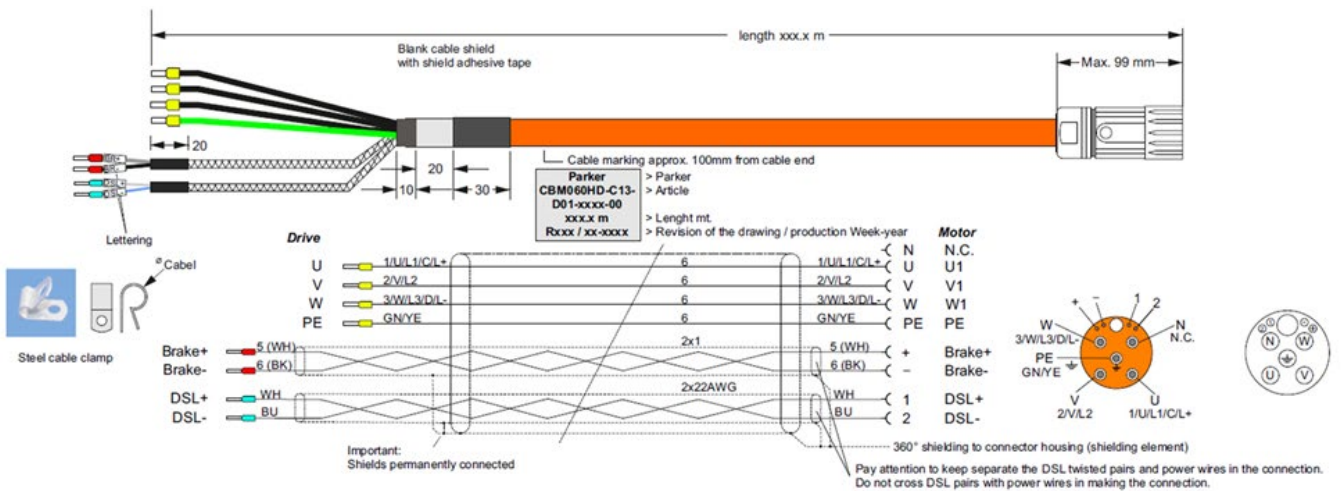
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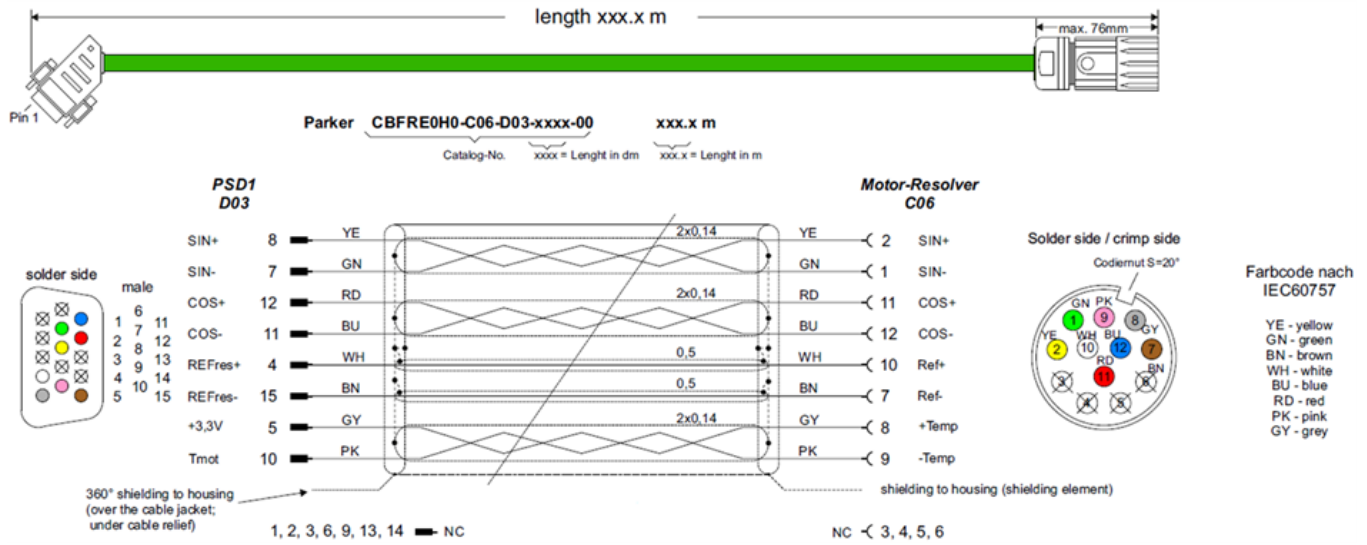


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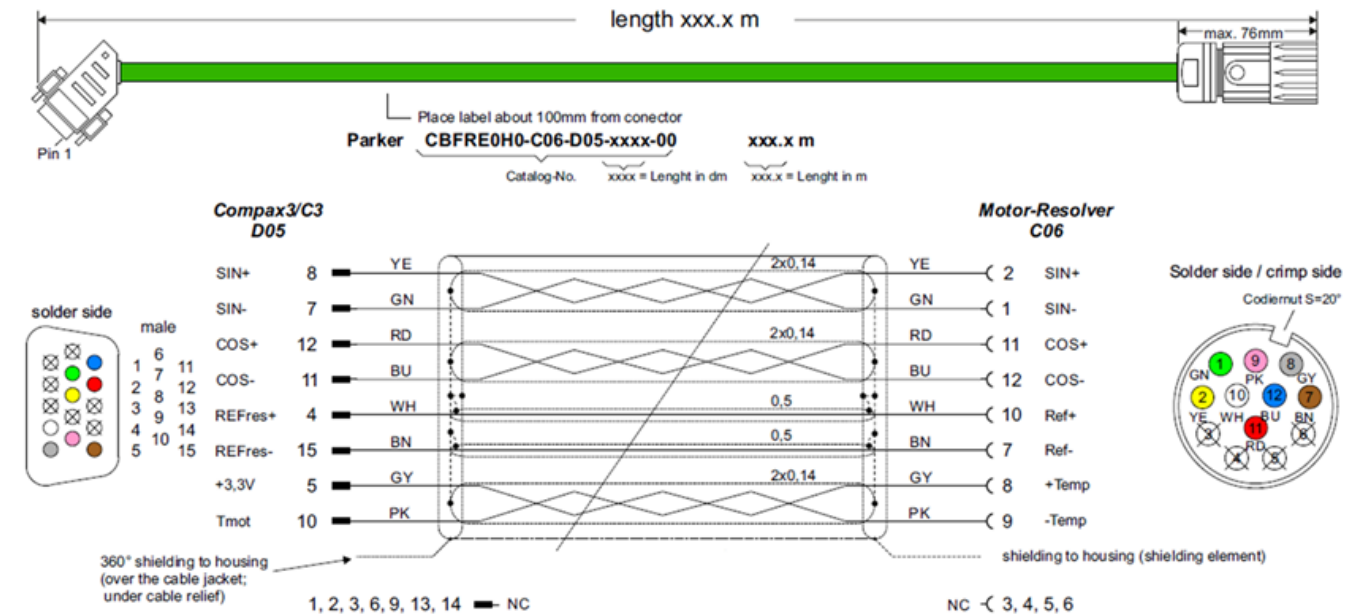


# Feedback Cables

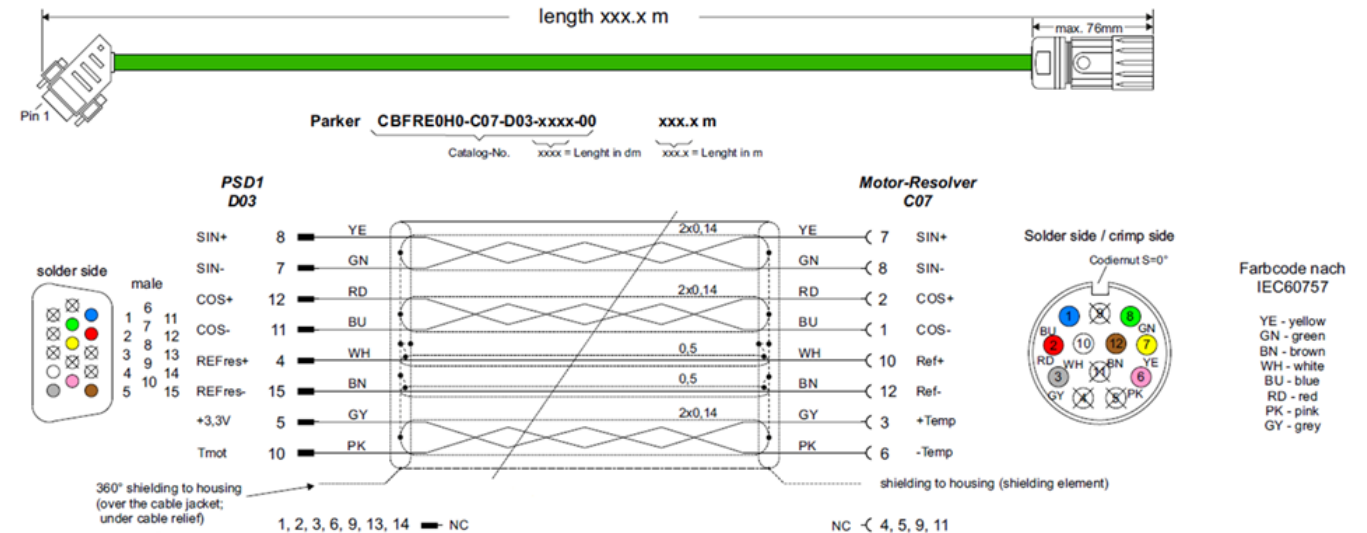
CBFRE0H0-C06-D03-xxxx-00



CBFRE0H0-C06-D05-xxxx-00



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