



die ölfeste, flexible Polyurethan-Mantelleitung mit hoher Abrieb- und Kerbfestigkeit

control- and signal cable, petrol- and oil-resistant, flexible, outer sheath polyurethane (PUR) highest abrasion and impact resistance

## Aufbaudaten

Feindrähtige/feinstdrähtige, flexible Kupferlitze, blank  
PVC-Isolation  
Adern: lagenverseilt, Schutzleiter in Außenlage, verschiedenfarbig gemäß VDE ab 6 Adern schwarz mit Ziffernaufdruck  
Außenmantel: Polyurethan (PUR)

## Technische Daten

in Anlehnung an VDE

Adern und Mantel: VDE 0245/0281  
Litzenaufbau: feindrähtig  
VDE 0295 KI.5/IEC 228 KI.5

Temperaturbereich bewegt: – 30 °C bis + 70 °C  
Biegeradius  
fein-/feinstdrähtig: 7,5 x Außendurchmesser  
Betriebsspannung  $U_{eff}$ : 500 V  
Prüfspannung  $U_{eff}$ : 3000 V  
Isolationswiderstand min: 100 MOhm x km  
Wetterbeständigkeit: sehr gut  
Farbcode: bekonflex „B“ Seite 117

bekonflex-11Y(PUR) findet überwiegend dort Verwendung, wo es auf hohe Abrieb- und Kerbfestigkeit des Außenmantels ankommt. Sie dient auf Baustellen, in Werkstätten als Zuleitung für leichte Handapparate.

Auf Wunsch liefern wir diese Leitung auch mit VDE-Überwachungsgutachten, mit abweichenden Ader- und Mantelfarben, in abgeschirmter Ausführung.

## Construction

Fine stranded/extra fine stranded bar copper conductor  
PVC-insulation  
Cores: twisted in layers, green-yellow conductor in outer layer varicoloured according to VDE above 6 cores, black, number-coded  
Outer-sheath: Polyurethane (PUR)

## Electrical properties

according to VDE  
Core and sheath: VDE 0245/0281  
Stranded: fine stranded  
VDE 0295 CI.5/IEC 228 CI.5

Temperature range for mobile operation: – 30 °C to + 70 °C  
Bending radius  
fine-/extra fine stranded: 7,5 x outer diameter  
Operating voltage  $U_{eff}$ : 500 V  
Test voltage  $U_{eff}$ : 3000 V  
Insulation resistance min: 100 MOhm x km  
Weather resistance: very good  
Colour code: bekonflex “B” page 117

bekonflex-11Y(PUR) cable has a major application wherever high abrasion resistance and impact strength are called for. being suitable to building sites, to workshops as leading cable for operating with light-weight instruments.

bekonflex-11Y(PUR) is deliverable on request with VDE approval with varying core- and sheath colour, shielded construction.

Bestell-Beispiele Mantelfarben:  
Order examples for sheath colour:

4014 . 00005  
0 = weiß/white  
1 = grau/grey RAL 7001  
2 = transparent  
3 = blau/blue RAL 5015  
4 = gelb/yellow  
5 = orange  
6 = schwarz/black  
7 = braun/brown  
8 = grau/grey RAL 7032  
9 = rot/red

Ziffer der 5. Stelle entsprechend der Mantelfarbe ändern.  
For sheath-colour change 5. numeral position.

# bekonflex®-11Y(PUR)

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control- and signal cable, petrol- and oil-resistant, flexible outer sheath Polyurethane (PUR) highest abrasion and impact resistance

**bekon**  
kabel

| Artikel-Nr. | Leiterraufbau<br>feindrähtig<br>Drähte x<br>mm ø | Aderzahl<br>und mm² | Kupferbasis: € 150,-/% kg |                   |                  |                                   |
|-------------|--------------------------------------------------|---------------------|---------------------------|-------------------|------------------|-----------------------------------|
|             |                                                  |                     | Kupfer-<br>zahl<br>kg/km  | Außen-ø<br>ca. mm | Gewicht<br>kg/km | Preis je<br>100 m<br>€ +<br>MwSt. |
| Mantel:     |                                                  |                     |                           |                   |                  |                                   |

| Part N° | N° of strands<br>fine<br>stranded x<br>mm ø | N° of cores<br>and mm² | Cu-basis: € 150,-/% kg |                   |                 |                        |
|---------|---------------------------------------------|------------------------|------------------------|-------------------|-----------------|------------------------|
|         |                                             |                        | Cu-<br>weight<br>kg/km | outer-ø<br>ca. mm | weight<br>kg/km | Price p.<br>100 m<br>€ |
| sheath: |                                             |                        |                        |                   |                 |                        |

|               |                      |          |       |      |     |  |
|---------------|----------------------|----------|-------|------|-----|--|
| schwarz/black |                      |          |       |      |     |  |
| 4014600004    | 0,5 mm²<br>16 x 0,20 | 4 x 0,5  | 19,2  | 6,2  | 52  |  |
| 4014600005    | OB                   | 4 x 0,5  | 19,2  | 6,2  | 52  |  |
| 4014600011    | OB                   | 7 x 0,5  | 33,6  | 7,3  | 82  |  |
| 4014600015    |                      | 14 x 0,5 | 67,2  | 10,3 | 172 |  |
| 4014600016    |                      | 16 x 0,5 | 76,8  | 10,8 | 195 |  |
| 4014600021    |                      | 24 x 0,5 | 115,2 | 12,9 | 288 |  |

|            |           |          |      |     |    |  |
|------------|-----------|----------|------|-----|----|--|
| weiß/white |           |          |      |     |    |  |
| 4014000041 | 0,75 mm²  | 2 x 0,75 | 14,4 | 5,6 | 42 |  |
| 4014000044 | 24 x 0,20 | 4 x 0,75 | 28,8 | 6,9 | 66 |  |
| 4014000046 |           | 5 x 0,75 | 36,0 | 7,5 | 94 |  |

|             |  |          |      |     |    |  |
|-------------|--|----------|------|-----|----|--|
| gelb/yellow |  |          |      |     |    |  |
| 4014400041  |  | 2 x 0,75 | 14,4 | 5,6 | 42 |  |
| 4014400042  |  | 3 x 0,75 | 21,6 | 5,9 | 52 |  |
| 4014400044  |  | 4 x 0,75 | 28,8 | 6,9 | 66 |  |
| 4014400046  |  | 5 x 0,75 | 36,0 | 7,5 | 94 |  |

|               |  |          |      |     |    |  |
|---------------|--|----------|------|-----|----|--|
| schwarz/black |  |          |      |     |    |  |
| 4014600041    |  | 2 x 0,75 | 14,4 | 5,6 | 42 |  |
| 4014600042    |  | 3 x 0,75 | 21,6 | 5,9 | 52 |  |
| 4014600044    |  | 4 x 0,75 | 28,8 | 6,9 | 66 |  |
| 4014600045*   |  | 4 x 0,75 | 28,8 | 6,9 | 66 |  |
| 4014600046    |  | 5 x 0,75 | 36,0 | 7,5 | 94 |  |

|             |           |         |      |      |     |  |
|-------------|-----------|---------|------|------|-----|--|
| gelb/yellow |           |         |      |      |     |  |
| 4014400081  | 1,0 mm²   | 2 x 1,0 | 19,2 | 6,8  | 61  |  |
| 4014400082  | 32 x 0,20 | 3 x 1,0 | 28,8 | 7,2  | 72  |  |
| 4014400084  |           | 4 x 1,0 | 38,4 | 7,9  | 88  |  |
| 4014400086  |           | 5 x 1,0 | 48,0 | 9,0  | 110 |  |
| 4014400090  |           | 7 x 1,0 | 67,2 | 10,0 | 140 |  |

|            |  |         |      |      |     |  |
|------------|--|---------|------|------|-----|--|
| orange     |  |         |      |      |     |  |
| 4014500090 |  | 7 x 1,0 | 67,2 | 10,0 | 140 |  |

|               |  |         |      |     |    |  |
|---------------|--|---------|------|-----|----|--|
| schwarz/black |  |         |      |     |    |  |
| 4014600081    |  | 2 x 1,0 | 19,2 | 6,8 | 61 |  |
| 4014600082    |  | 3 x 1,0 | 28,8 | 7,2 | 72 |  |
| 4014600084    |  | 4 x 1,0 | 38,4 | 7,9 | 88 |  |

|            |           |         |      |     |     |  |
|------------|-----------|---------|------|-----|-----|--|
| weiß/white |           |         |      |     |     |  |
| 4014000122 | 1,5 mm²   | 3 x 1,5 | 43,2 | 7,6 | 98  |  |
| 4014000126 | 30 x 0,25 | 5 x 1,5 | 72,0 | 9,6 | 156 |  |

|                    |  |         |      |     |    |  |
|--------------------|--|---------|------|-----|----|--|
| grau/grey RAL 7001 |  |         |      |     |    |  |
| 4014100122         |  | 3 x 1,5 | 43,2 | 7,6 | 98 |  |

|             |  |          |       |      |     |  |
|-------------|--|----------|-------|------|-----|--|
| gelb/yellow |  |          |       |      |     |  |
| 4014400121  |  | 2 x 1,5  | 28,8  | 7,2  | 74  |  |
| 4014400122  |  | 3 x 1,5  | 43,2  | 7,6  | 98  |  |
| 4014400124  |  | 4 x 1,5  | 57,6  | 8,6  | 128 |  |
| 4014400126  |  | 5 x 1,5  | 72,0  | 9,6  | 156 |  |
| 4014400130  |  | 7 x 1,5  | 100,8 | 10,6 | 220 |  |
| 4014400134  |  | 12 x 1,5 | 172,8 | 13,6 | 325 |  |

| Artikel-Nr. | Leiterraufbau<br>feindrähtig<br>Drähte x<br>mm ø | Aderzahl<br>und mm² | Kupferbasis: € 150,-/% kg |                   |                  |                                   |
|-------------|--------------------------------------------------|---------------------|---------------------------|-------------------|------------------|-----------------------------------|
|             |                                                  |                     | Kupfer-<br>zahl<br>kg/km  | Außen-ø<br>ca. mm | Gewicht<br>kg/km | Preis je<br>100 m<br>€ +<br>MwSt. |
| Mantel:     |                                                  |                     |                           |                   |                  |                                   |

| Part N° | N° of strands<br>fine<br>stranded x<br>mm ø | N° of cores<br>and mm² | Cu-basis: € 150,-/% kg |                   |                 |                        |
|---------|---------------------------------------------|------------------------|------------------------|-------------------|-----------------|------------------------|
|         |                                             |                        | Cu-<br>weight<br>kg/km | outer-ø<br>ca. mm | weight<br>kg/km | Price p.<br>100 m<br>€ |
| sheath: |                                             |                        |                        |                   |                 |                        |

|            |  |         |      |     |     |  |
|------------|--|---------|------|-----|-----|--|
| orange     |  |         |      |     |     |  |
| 4014500124 |  | 4 x 1,5 | 57,6 | 8,6 | 128 |  |

|               |  |         |      |     |     |  |
|---------------|--|---------|------|-----|-----|--|
| schwarz/black |  |         |      |     |     |  |
| 4014600122    |  | 3 x 1,5 | 43,2 | 7,6 | 98  |  |
| 4014600126    |  | 5 x 1,5 | 72,0 | 9,6 | 156 |  |

|            |                      |         |       |      |     |  |
|------------|----------------------|---------|-------|------|-----|--|
| 4014600207 | 6,0 mm²<br>84 x 0,30 | 3 x 6,0 | 177,8 | 15,2 | 352 |  |
|------------|----------------------|---------|-------|------|-----|--|

|             |           |         |       |      |     |  |
|-------------|-----------|---------|-------|------|-----|--|
| gelb/yellow |           |         |       |      |     |  |
| 4014400161  | 2,5 mm²   | 2 x 2,5 | 48,0  | 9,6  | 112 |  |
| 4014400162  | 51 x 0,25 | 3 x 2,5 | 72,0  | 10,1 | 155 |  |
| 4014400164  |           | 4 x 2,5 | 96,0  | 11,3 | 200 |  |
| 4014400166  |           | 5 x 2,5 | 120,0 | 12,4 | 250 |  |

|            |           |         |       |      |     |  |
|------------|-----------|---------|-------|------|-----|--|
| 4014400193 | 4,0 mm²   | 4 x 4,0 | 153,6 | 14,0 | 280 |  |
| 4014400194 | 56 x 0,30 | 5 x 4,0 | 192,0 | 15,2 | 350 |  |

|            |           |         |       |      |     |  |
|------------|-----------|---------|-------|------|-----|--|
| 4014400208 | 6,0 mm²   | 4 x 6,0 | 230,4 | 15,9 | 395 |  |
| 4014400209 | 84 x 0,30 | 5 x 6,0 | 288,0 | 17,4 | 490 |  |

## feinstdrähtig/extra fine strands

|               |                       |         |      |     |    |  |
|---------------|-----------------------|---------|------|-----|----|--|
| schwarz/black |                       |         |      |     |    |  |
| 4014620002    | 0,5 mm²<br>256 x 0,05 | 3 x 0,5 | 14,4 | 5,3 | 43 |  |

|            |           |          |      |     |    |  |
|------------|-----------|----------|------|-----|----|--|
| orange     |           |          |      |     |    |  |
| 4014520041 | 0,75 mm²  | 2 x 0,75 | 14,4 | 5,6 | 42 |  |
| 4014520042 | 42 x 0,15 | 3 x 0,75 | 21,6 | 5,9 | 52 |  |
| 4014520044 |           | 4 x 0,75 | 28,8 | 6,9 | 66 |  |
| 4014520046 |           | 5 x 0,75 | 36,0 | 7,5 | 94 |  |

|            |           |         |      |      |     |  |
|------------|-----------|---------|------|------|-----|--|
| 4014520081 | 1,0 mm²   | 2 x 1,0 | 19,2 | 6,8  | 61  |  |
| 4014520082 | 57 x 0,15 | 3 x 1,0 | 28,8 | 7,2  | 72  |  |
| 4014520084 |           | 4 x 1,0 | 38,4 | 7,9  | 88  |  |
| 4014520086 |           | 5 x 1,0 | 48,0 | 9,0  | 110 |  |
| 4014520090 |           | 7 x 1,0 | 67,2 | 10,0 | 140 |  |

|            |           |          |       |      |     |  |
|------------|-----------|----------|-------|------|-----|--|
| 4014520121 | 1,5 mm²   | 2 x 1,5  | 28,8  | 7,2  | 74  |  |
| 4014520122 | 85 x 0,15 | 3 x 1,5  | 43,2  | 7,6  | 98  |  |
| 4014520124 |           | 4 x 1,5  | 57,6  | 8,6  | 128 |  |
| 4014520126 |           | 5 x 1,5  | 72,0  | 9,6  | 156 |  |
| 4014520130 |           | 7 x 1,5  | 100,8 | 10,6 | 220 |  |
| 4014520134 |           | 12 x 1,5 | 172,8 | 13,6 | 325 |  |

|            |            |         |       |      |     |  |
|------------|------------|---------|-------|------|-----|--|
| 4014520161 | 2,5 mm²    | 2 x 2,5 | 48,0  | 9,6  | 112 |  |
| 4014520162 | 142 x 0,15 | 3 x 2,5 | 72,0  | 10,1 | 155 |  |
| 4014520164 |            | 4 x 2,5 | 96,0  | 11,3 | 200 |  |
| 4014520166 |            | 5 x 2,5 | 120,0 | 12,4 | 250 |  |

|            |            |         |       |      |     |  |
|------------|------------|---------|-------|------|-----|--|
| 4014520193 | 4,0 mm²    | 4 x 4,0 | 153,6 | 14,0 | 280 |  |
| 4014520194 | 221 x 0,15 | 5 x 4,0 | 192,0 | 15,2 | 350 |  |

|            |           |         |       |      |     |  |
|------------|-----------|---------|-------|------|-----|--|
| 4014520208 | 6,0 mm²   | 4 x 6,0 | 230,4 | 15,9 | 395 |  |
| 4014520209 | 192 x 0,2 | 5 x 6,0 | 288,0 | 17,4 | 490 |  |

\* mit zentraler Blindader  
with central filler