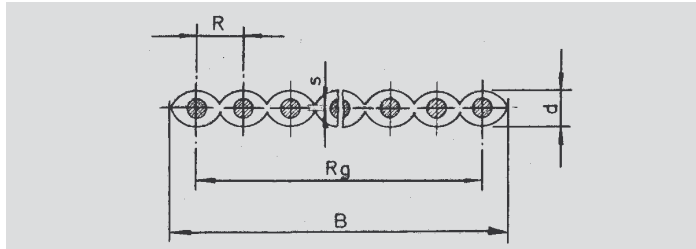


# bekon<sup>tronic</sup><sup>®</sup>-Bandleitung -Flat-Ribbon-Cable



Typ 41.303, AWG 28, extrudiert  
Typ 41.303, AWG 26, extrudiert  
Raster 1,27 mm, UL-Style 2651, einfarbig

Type 41.303, AWG 28, extruded  
Type 41.303, AWG 26, extruded  
pitch 1,27 mm, UL-Style 2651, unicoloured

## Aufbaudaten

|            |                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Leiter:    | AWG 28, Kupfer-Litze 7 x 0,127<br>verzinnt, 0,09 mm <sup>2</sup><br>AWG 26, Kupfer-Litze 7 x 0,16<br>verzinnt, 0,14 mm <sup>2</sup> |
| Isolation: | Spezial PVC ähnlich Y18 nach<br>VDE 0207 (– 20 °C bis + 105 °C)                                                                     |
| Farbe:     | grau mit einseitiger<br>Randmarkierung<br>AWG 28/blau, AWG 26/gelb                                                                  |

## Technische Daten

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Betriebsspannung $U_{\text{eff}}$ max.: | 300 V                                    |
| Prüfspannung $U_{\text{eff}}$ :         | 2000 V                                   |
| Strombelastbarkeit ca.:                 | AWG 26, 3 A<br>AWG 28, 1 A               |
| Leiterwiderstand max.:                  | AWG 26, 140 Ohm/km<br>AWG 28, 230 Ohm/km |
| Isulationswiderstand:                   | > 20 MOhm x km                           |
| Flammwidrigkeit:                        | nach VDE 0472, § 804 und UL              |
| Shore-Härte A:                          | 90 ± 5                                   |
| Kapazität (1 kHz) GSG (pF/m):           | 49/AWG 26<br>45/AWG 28                   |
| Induktivität (μH/m):                    | 0,43/AWG 26<br>0,46/AWG 28               |
| Impedanz (1 MHz) GSG:                   | 104 Ohm/AWG 28                           |
| Übersprechen nah (1 MHz):               | 60 dB                                    |
| Übersprechen fern (1 MHz):              | 50 dB                                    |

## Maße und Toleranzen

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Gesamtraster $R_g$ : | $(n-1) \times R$                                       |
| Gesamtbreite B:      | $n \times R$                                           |
| Raster R:            | $1,27 \pm 0,05$ mm                                     |
| Steg s:              | 0,18 (Richtwert)                                       |
| Leitungsdicke d:     | $0,92 \pm 0,05$ mm/AWG 28<br>$1,05 \pm 0,08$ mm/AWG 26 |
| Leiterzahl n:        | 10-64                                                  |
| Toleranz bis n = 20: | ± 0,20 mm                                              |
| n = 40:              | ± 0,30 mm                                              |
| n = 64:              | ± 0,40 mm                                              |

## Construction

|             |                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor:  | AWG 28, Cu-stranded wire<br>7 x 0,127, tinned, 0,09 mm <sup>2</sup><br>AWG 26, Cu-stranded wire<br>7 x 0,16, tinned, 0,14 mm <sup>2</sup> |
| Insulation: | Special PVC similar Y18 to<br>VDE 0207 (– 20 °C to +105 °C)                                                                               |
| Colour:     | grey with one-sided<br>marking<br>AWG 28/blue, AWG 26/yellow                                                                              |

## Electrical properties

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| Operating voltage $U_{\text{eff}}$ max.: | 300 V                                    |
| Test voltage $U_{\text{eff}}$ :          | 2000 V                                   |
| Current capacity ca.:                    | AWG 26, 3 A<br>AWG 28, 1 A               |
| Conductor resistance max.:               | AWG 26, 140 Ohm/km<br>AWG 28, 230 Ohm/km |
| Insulation resistance:                   | > 20 MOhm x km                           |
| Flammability:                            | to VDE 0472, § 804 and UL                |
| Shore-Hardness A:                        | 90 ± 5                                   |
| Capacitance (1 kHz)<br>GSG (pF/m):       | 49/AWG 26<br>45/AWG 28                   |
| Inductance (μH/m):                       | 0,43/AWG 26<br>0,46/AWG 28               |
| Impedance (1 MHz) GSG:                   | 104 Ohm/AWG 28                           |
| Crosstalk near (1 MHz):                  | 60 dB                                    |
| Crosstalk far (1 MHz):                   | 50 dB                                    |

## Measurements and tolerances

|                          |                                                        |
|--------------------------|--------------------------------------------------------|
| Nominal span $R_g$ :     | $(n-1) \times R$                                       |
| Nominal overall width B: | $n \times R$                                           |
| Pitch R:                 | $1,27 \pm 0,05$ mm                                     |
| Bonding s:               | 0,18 (approx. value)                                   |
| Thickness d:             | $0,92 \pm 0,05$ mm/AWG 28<br>$1,05 \pm 0,08$ mm/AWG 26 |
| N° of conductors n:      | 10-64                                                  |
| Tolerance up to n = 20:  | ± 0,20 mm                                              |
| n = 40:                  | ± 0,30 mm                                              |
| n = 64:                  | ± 0,40 mm                                              |

| Artikel-Nr. | Leiter-<br>zahl n | Kupfer-<br>zahl<br>kg/km | Kupferbasis: € 150,-/ % kg        |     |                |     |               |     |
|-------------|-------------------|--------------------------|-----------------------------------|-----|----------------|-----|---------------|-----|
|             |                   |                          | Preis in € bei Abnahme von + Mwst |     |                |     |               |     |
|             |                   |                          | 1 Rolle =                         |     | 5 Rollen =     |     | 10 Rollen =   |     |
|             |                   |                          | 30,5 m/100 ft                     |     | 152,5 m/500 ft |     | 305 m/1000 ft |     |
|             |                   |                          | € / € Δ                           | /   | € / € Δ        | /   | € / € Δ       | /   |
|             |                   |                          | Rolle                             | % m | Rolle          | % m | Rolle         | % m |

| Part-N° | N° of<br>conduc-<br>tors n | Cu-weight<br>kg/km | Cu-basis: € 150,-/ % kg |     |                |     |               |     |
|---------|----------------------------|--------------------|-------------------------|-----|----------------|-----|---------------|-----|
|         |                            |                    | Price in € on orders of |     |                |     |               |     |
|         |                            |                    | 1 spool =               |     | 5 spools =     |     | 10 spools =   |     |
|         |                            |                    | 30,5 m/100 ft           |     | 152,5 m/500 ft |     | 305 m/1000 ft |     |
|         |                            |                    | € / € Δ                 | /   | € / € Δ        | /   | € / € Δ       | /   |
|         |                            |                    | spool                   | % m | spool          | % m | spool         | % m |

|            |    |       |
|------------|----|-------|
| AWG 26     |    |       |
| 4130326100 | 10 | 13,44 |
| 4130326140 | 14 | 18,82 |
| 4130326150 | 15 | 20,16 |
| 4130326160 | 16 | 21,50 |
| 4130326200 | 20 | 26,88 |
| 4130326240 | 24 | 32,26 |
| 4130326250 | 25 | 33,60 |
| 4130326260 | 26 | 34,94 |
| 4130326280 | 28 | 37,63 |
| 4130326340 | 34 | 45,70 |
| 4130326360 | 36 | 48,38 |
| 4130326370 | 37 | 49,73 |
| 4130326400 | 40 | 53,76 |
| 4130326480 | 48 | 64,51 |
| 4130326500 | 50 | 67,20 |
| 4130326600 | 60 | 80,64 |
| 4130326640 | 64 | 86,02 |

| Artikel-Nr. | Leiter-<br>zahl n | Kupfer-<br>zahl<br>kg/km | Kupferbasis: € 150,-/ % kg        |     |                |     |               |     |
|-------------|-------------------|--------------------------|-----------------------------------|-----|----------------|-----|---------------|-----|
|             |                   |                          | Preis in € bei Abnahme von + Mwst |     |                |     |               |     |
|             |                   |                          | 1 Rolle =                         |     | 5 Rollen =     |     | 10 Rollen =   |     |
|             |                   |                          | 30,5 m/100 ft                     |     | 152,5 m/500 ft |     | 305 m/1000 ft |     |
|             |                   |                          | € / € Δ                           | /   | € / € Δ        | /   | € / € Δ       | /   |
|             |                   |                          | Rolle                             | % m | Rolle          | % m | Rolle         | % m |

| Part-N° | N° of<br>conduc-<br>tors n | Cu-weight<br>kg/km | Cu-basis: € 150,-/ % kg |     |                |     |               |     |
|---------|----------------------------|--------------------|-------------------------|-----|----------------|-----|---------------|-----|
|         |                            |                    | Price in € on orders of |     |                |     |               |     |
|         |                            |                    | 1 spool =               |     | 5 spools =     |     | 10 spools =   |     |
|         |                            |                    | 30,5 m/100 ft           |     | 152,5 m/500 ft |     | 305 m/1000 ft |     |
|         |                            |                    | € / € Δ                 | /   | € / € Δ        | /   | € / € Δ       | /   |
|         |                            |                    | spool                   | % m | spool          | % m | spool         | % m |

|            |    |       |
|------------|----|-------|
| AWG 28     |    |       |
| 4130328080 | 8  | 7,04  |
| 4130328090 | 9  | 7,92  |
| 4130328100 | 10 | 8,80  |
| 4130328140 | 14 | 12,32 |
| 4130328150 | 15 | 13,20 |
| 4130328160 | 16 | 14,08 |
| 4130328200 | 20 | 17,60 |
| 4130328240 | 24 | 21,12 |
| 4130328250 | 25 | 22,00 |
| 4130328260 | 26 | 22,88 |
| 4130328280 | 28 | 24,64 |
| 4130328340 | 34 | 29,92 |
| 4130328360 | 36 | 31,68 |
| 4130328370 | 37 | 32,56 |
| 4130328400 | 40 | 35,20 |
| 4130328480 | 48 | 42,24 |
| 4130328500 | 50 | 44,00 |
| 4130328600 | 60 | 52,80 |
| 4130328640 | 64 | 56,32 |

| Artikel-Nr. | Leiterzahl n      | Breite B mm | Rg mm |
|-------------|-------------------|-------------|-------|
| Part N°     | N° of conductor n | Width B mm  | Rg mm |

|            |    |       |       |
|------------|----|-------|-------|
| AWG 28     |    |       |       |
| 4130328080 | 8  | 10,16 | 8,89  |
| 4130328090 | 9  | 11,43 | 10,17 |
| 4130328100 | 10 | 12,70 | 11,43 |
| 4130328140 | 14 | 17,80 | 16,51 |
| 4130328150 | 15 | 19,04 | 17,78 |
| 4130328160 | 16 | 20,30 | 19,05 |
|            |    |       |       |
| 4130328200 | 20 | 25,40 | 24,13 |
| 4130328240 | 24 | 30,47 | 29,21 |
| 4130328250 | 25 | 31,74 | 30,48 |
| 4130328260 | 26 | 33,00 | 31,75 |
| 4130328280 | 28 | 35,55 | 34,29 |
|            |    |       |       |
| 4130328340 | 34 | 43,20 | 41,91 |
| 4130328360 | 36 | 45,71 | 44,45 |
| 4130328370 | 37 | 46,98 | 45,72 |
| 4130328400 | 40 | 50,80 | 49,53 |
| 4130328480 | 48 | 60,95 | 59,69 |
|            |    |       |       |
| 4130328500 | 50 | 63,50 | 62,23 |
| 4130328600 | 60 | 76,20 | 74,93 |
| 4130328640 | 64 | 81,20 | 80,01 |

Standardlänge: 30,5 m/100 ft  
Auf Wunsch auch 91,5 m/300 ft lieferbar. Letzte Stelle der Artikel-Nr. entsprechend der Aufmachung ändern:

z. B. 4130328100 = 30,5 m/100 ft Rolle  
1 = 91,5 m/300 ft Rolle

Größere Mengen auf Anfrage.

Standard length: 30,5 m/100 ft  
Deliverable on request: 91,5 m/300 ft. Change last numeral position of part N° corresponding to put-up:

e. g. 4130328100 = 30,5 m/100 ft spool  
1 = 91,5 m/300 ft spool

Greater quantities on request.