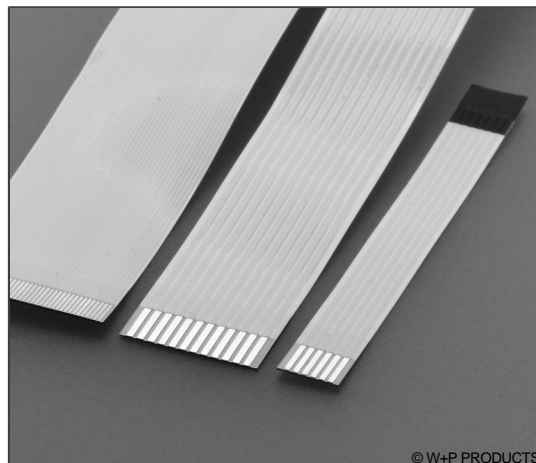
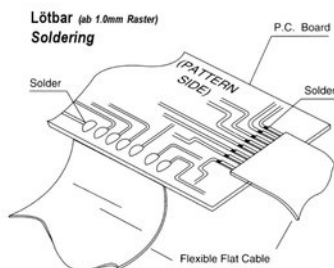
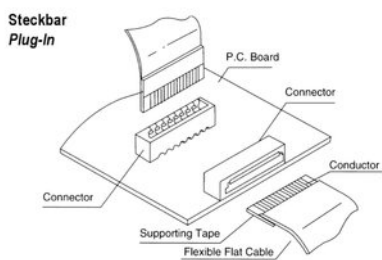


Verbindungsmöglichkeiten / Connection



© W+P PRODUCTS

Technische Daten

Technical Specifications

| UL Style | UL2896 Standard | UL20624 Optional | UL20861 HT - Hi-Temp |
|--|---------------------------------------|------------------|----------------------|
| Temperaturbereich* / Temperature Range* | -30°C ~ +80°C | | -30°C ~ +105°C |
| Nennspannung / Voltage Rating | 30 V AC | 60 V AC | 60 V AC |
| Leitermaterial / Conductor Material | Kupfer, verzinnt / Copper, tin plated | | |
| Isolationsfolie / Insulation Foil | PET 2x45um | PET 2x60um | PET 2x60um |
| Verstärkungsfolie / Stiffener | 125 / 250um | | |
| Isolationswiderstand / Insulation Resistance | 100 MOhm min. | | |
| Spannungsfestigkeit / Test Voltage | 500 V DC | | |

* Die Betriebstemperaturen gelten nur für flach liegende FFC. Für gefaltete oder mit engen Radien versehene FFC gilt ein um mind. 30°C reduzierter oberer Temperaturbereich.

Above operating temperatures apply only to plain FFC's. For folded or narrowly bended FFC's, a reduced upper temperature range applies which is min. 30°C lower.

Rastermaße und Leiterbahnen

Pitch and Conductor Options

| Raster [mm] / Option Pitch | | Anzahl der Leiter No. of Conductors | Leiterdicke [mm] / Option Thickness | | Leiterbreite [mm] / Option Width | | Widerstand [Ohm/m] Resistance | Nennstrom [A] Current Rating |
|----------------------------|---|--|-------------------------------------|-------|----------------------------------|------|-------------------------------|------------------------------|
| 0,50 | 1 | | 006 - 170 | 0,035 | 3 | 0,32 | | |
| | | 0,050 | | 2 | 1,28 | | 0,2 | |
| 1,00 | 3 | 004 - 100 | 0,035 | 3 | 0,65 | 3 | 0,96 | 0,3 |
| | | | 0,050 | 2 | | | 0,63 | 0,5 |
| | | | 0,100 | 1 | | | 0,33 | 0,9 |
| 1,25 | 4 | 003 - 080 | 0,050 | 2 | 0,8 | 4 | 0,52 | 0,5 |
| | | | 0,100 | 1 | | | 0,26 | 1,0 |
| 1,27 | 5 | 003 - 077 | 0,050 | 2 | 0,8 | 4 | 0,52 | 0,5 |
| | | | 0,100 | 1 | | | 0,26 | 1,0 |
| 2,00 | 6 | 003 - 038 | 0,100 | 1 | 1,27 | 5 | 0,1 | 2,0 |
| 2,54 | 7 | | | | | | | |

Standard Anschlussarten / Standard Cable Type (Freigelegte Enden nur ab Raster 1.0mm möglich)



Freiliegende Leiterbahnenenden der Ausführungen A und E sind nur ab Rastermaß 1mm und bis max. 3mm freiliegende Aderlänge (S1, S2) lieferbar.

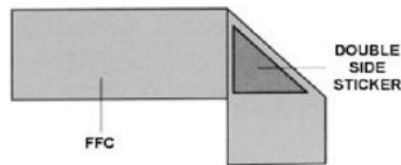
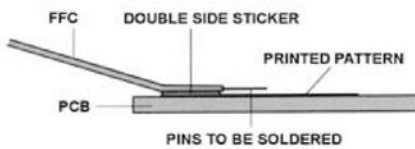
Free solder ends of cable types A and E are available for min. 1mm pitch and limited up to max. 3mm unstripped leads (S1, S2).

Sonderausführungen / Special Cable Type (Freigelegte Enden nur ab Raster 1.0mm möglich)



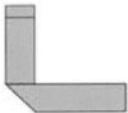
FFC - Zusatzoptionen / Post Process

Doppelseitiges Klebeband / Affixing Double Side Sticker

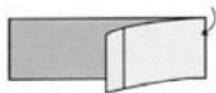


Falten und Biegen / Folding and Bending to an angle

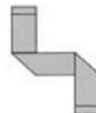
90° FOLDING



180° FOLDING



CRANK FOLDING

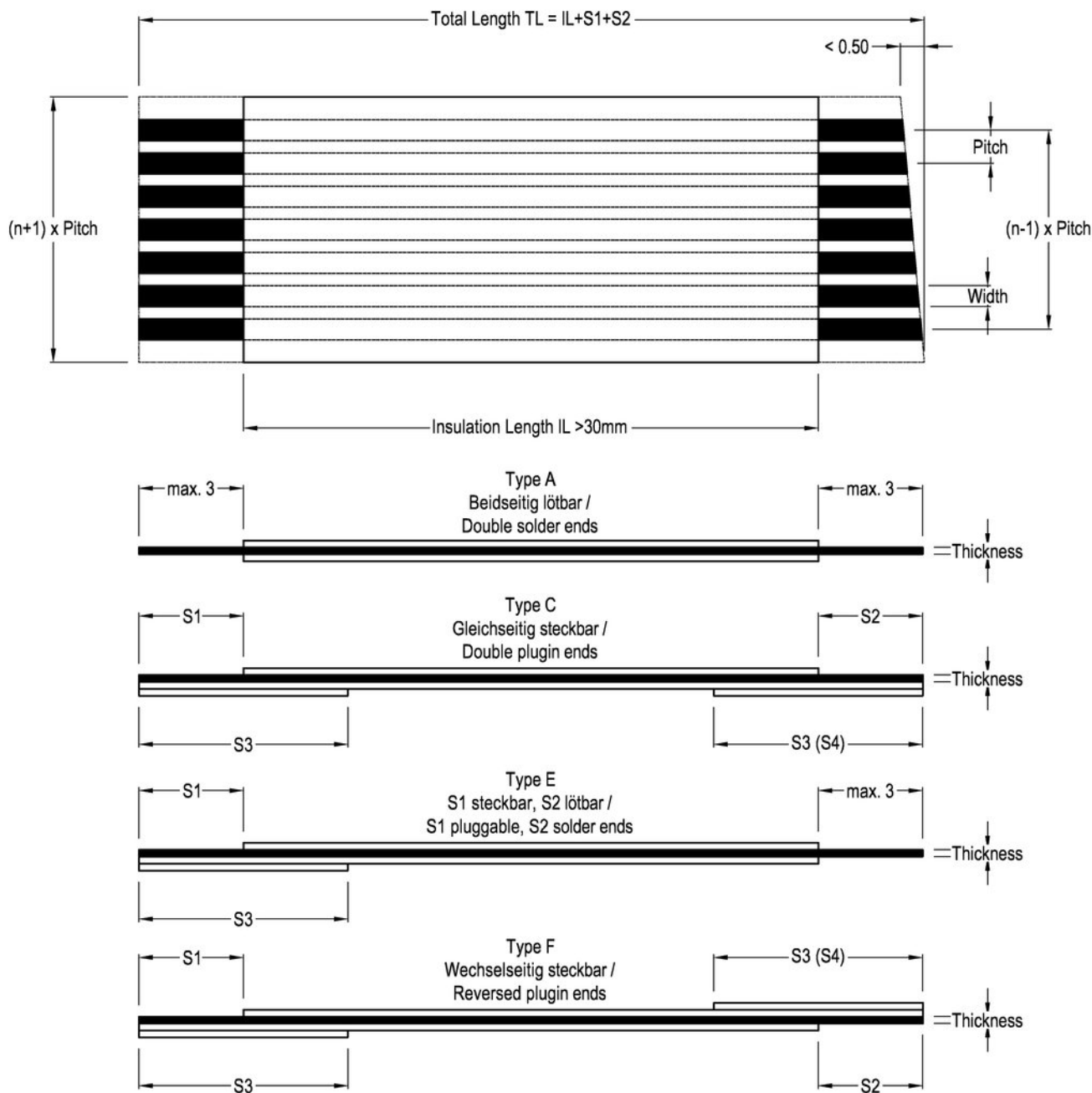


Z-BENDING



Test Characteristics

| Test Item | Result | Test Methode |
|-----------------------|---|--|
| Aging | Left unattended for 96 hours | at 85°C / 110°C |
| Flammability | VW-1 | UL |
| Temperatur cycling | -40°C > +25°C > +85°C > +25°C (5 cycles) | |
| Humidity | Left unattended for 96 hours | at 40°C and 95% rel. Humidity |
| Flexibility / Rolling | 50,000-100,000 cycles for 0.1mm conductor 3-4 Mio. cycles for 0.05mm conductor 8-10 Mio. cycles for 0.035mm conductor | 10mm radius, 10cm/cycle, 120 cycles/min. |
| Abrasion | No exposure of conductor | 5mm c, 600g, 60 cycles/min., more than 10,000 cycles |



Toleranzen / Tolerances

TL IL ±2.0 (30 ~ 300) / ±5.0 (> 300) S1 S2 ±1.0 S3 S4 ±2.0 Pitch ± 0.1 Thickness ± 0.01 Width ± 0.05

| Series | Pitch* | Conductors* | Insulation Length* | Type* | S1/S2/S3/S4* | Thickness* | Width* |
|------------|----------|----------------|------------------------|-------------------|-------------------------------|------------|----------|
| 599 | 5 | 40 | 120 | C | 5/5/10 | 1 | 4 |
| | 1 0,50mm | 006-170 | Länge Isolierung [mm] | A (nicht Pitch 1) | S1 [mm] Abisolierte | 1 0,100mm | 7 0,32mm |
| | 3 1,00mm | 004-100 | Insulation Length [mm] | (not Pitch 1) | Länge | 2 0,050mm | 3 0,65mm |
| | 4 1,25mm | 003-080 | | C | Uncovered length | 3 0,035mm | 4 0,80mm |
| | 5 1,27mm | 003-077 | | E (nicht Pitch 1) | S2 [mm] Abisolierte | | 5 1,27mm |
| | 6 2,00mm | 003-038 | | (not Pitch 1) | Länge | | |
| | 7 2,54mm | | | F | Uncovered length | | |
| | | | | | S3 (S4, optional) [mm] | | |
| | | | | | Länge Stützband | | |
| | | | | | Stiffener Length | | |
| | | | | | Beispiele: | | |
| | | | | | Examples: | | |
| | | | | | 3/3/0 Type A | | |
| | | | | | 5/3/10 Type E | | |
| | | | | | 5/5/10 Type C, F | | |

* Dies ist ein **Bestellbeispiel** -
bitte durch Ihre Spezifikationen ersetzen.
* This is an **order example** -
please replace by your specifications.