

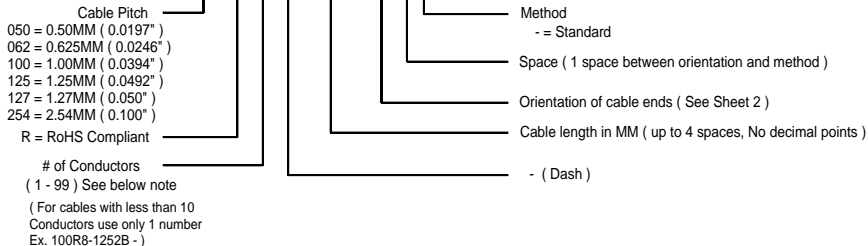
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|     |                 | REVISIONS |          |
|-----|-----------------|-----------|----------|
| LTR | DESCRIPTION     |           | DATE     |
| -   | INITIAL RELEASE |           | 8/1/2013 |










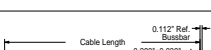

### Standard Part Numbering Configuration

**XXXRXX - XXXXX -** 15 Characters maximum












|          |          |   |       |      |                          |
|----------|----------|---|-------|------|--------------------------|
| MATERIAL |          | <b>P</b> ARLEX CORPORATION<br>ONE PARLEX PLACE<br>METHUEN, MA 01844<br><br>LAMINATED CABLE DIVISION |       |      |                          |
| DR       | DATE     |   |       |      |                          |
| P. WALSH | 8/1/2013 | Parlex Standard ZIF Style Cables Part Numbering Configurations and General Specifications           |       |      |                          |
| CHK      |          | SIZE  |       | FSCM | <b>PS-3705</b><br>Rev. - |
| ENG      | 8/1/2013 | <b>B</b>  | 18377 |      |                          |
| APPD     |          | SCALE   | NA    |      | SHEET 1 OF 4             |

## Cables in piece form

|    |  |
|----|--|
| B  | <br>ZIF with Stiffeners on both ends                     |
| BN | <br>ZIF with Stiffener on one end only                  |
| BO | <br>ZIF with Stiffeners both ends Opposite sides        |
| BL | <br>ZIF with Stiffeners one end and Lasered one end     |
| BT | <br>ZIF with Stiffener one end and Blunt cut one end    |
| N  | <br>ZIF with no Stiffeners                              |
| NO | <br>ZIF with no Stiffeners Opposite sides               |
| NL | <br>ZIF with no Stiffener one end and Lasered one end   |
| NT | <br>ZIF with no Stiffener one end and Blunt cut one end |
| L  | <br>Lasered cable both ends                             |
| TT | <br>Cable Blunt cut both ends                           |

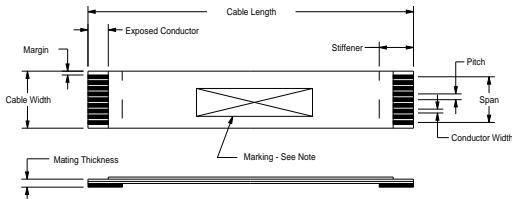
## Cable end orientations

### Cables in bulk form

|     |  |
|-----|--|
| KK  | <br>Bulk roll with no exposed conductors and no stiffeners   |
| KS  | <br>Bulk roll with no exposed conductors and no stiffeners with stripe marked over first conductor |
| KW  | <br>Bulk roll with exposed conductors and stiffeners   |
| KN  | <br>Bulk roll with exposed conductors and no stiffeners  |
| KR  | <br>Bulk roll with exposed conductors and stiffeners on opposite sides                             |
| KL  | <br>Bulk roll with exposed conductors with stiffeners and double bare area                         |
| KBN | <br>Bulk roll with exposed conductors and stiffeners every other window                            |
| KNO | <br>Bulk roll with exposed conductors and no stiffeners opposite sides                             |
| KRN | <br>Bulk roll with exposed conductors and stiffeners every other window opposite sides             |

|       |       |              |      |
|-------|-------|--------------|------|
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| SCALE | NA    | SHEET 2 OF 4 |      |

# Standard ZIF Cable - Same side exposure



## Notes:

Cable Width = (# of conductors + 1) \* (Pitch)

Span = (# of conductors - 1) \* (Pitch)

Mating Thickness = .012" (.305mm)

Insulation = .002" Polyester with .0015" Flame Retardent Adhesive

Conductors = Copper Tin Plated

Temperature rating = -55°C to 105°C

Dielectric Strength = 2500 Volts/Mil

UL Flame Rating = VW-1

Insulation Resistance = 10 Megaohm min.

Marking - Minimum marking to be "PARLEX and Date Code". On cables where spacing does not allow parts will not be marked.

| Pitch           | Margin          | Exposed Conductor | Stiffener Length | Copper Thickness | Copper Width    | UL Style #   | Current Rating |
|-----------------|-----------------|-------------------|------------------|------------------|-----------------|--------------|----------------|
| .0197" (.500mm) | .014" (.356mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .011" (.280mm)  | 20890        | 50 AMPS        |
| .0246" (.625mm) | .017" (.422mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .016" (.406mm)  | 20890        | 50 AMPS        |
| .025" (.635mm)  | .020" (.495mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .011" (.280mm)  | 20890        | 50 AMPS        |
| .0315" (.800mm) | .023" (.572mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .019" (.483mm)  | 20566        | 80 AMPS        |
| .0394" (1.00mm) | .026" (.660mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .026" (.660mm)  | 20566        | 1.5 AMPS       |
| .0492" (1.25mm) | .033" (.845mm)  | .170" (4.318mm)   | .294" (7.5mm)    | .003" (.076mm)   | .0315" (.800mm) | 20566 & 2643 | 2.0 AMPS       |
| .050" (1.27mm)  | .034" (.864mm)  | .170" (4.318mm)   | .294" (7.5mm)    | .003" (.076mm)   | .0315" (.800mm) | 20566 & 2643 | 2.0 AMPS       |
| .100" (2.54mm)  | .069" (1.753mm) | .240" (6.096mm)   | .394" (10mm)     | .003" (.076mm)   | .062" (1.575mm) | 2643         | 3.0 AMPS       |

## UL Style # Notes

20890 = .008" Min spacing between conductors, Voltage rating = 90 Volts

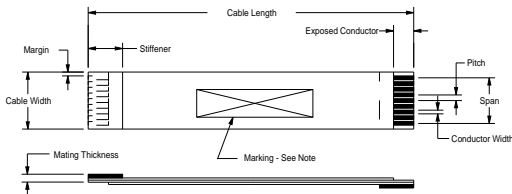
20566 = .010" Min spacing between conductors, Voltage rating = 90 Volts

2643 = .016" Min spacing between conductors, Voltage rating = 300 Volts

| Dimension                |               | Standard Tolerances |
|--------------------------|---------------|---------------------|
| Cable Length             | 0-3"          | ±.050" (1.27mm)     |
|                          | 3"-6"         | ±.060" (1.524mm)    |
|                          | 6"-12"        | ±.070" (1.778mm)    |
|                          | 12"-18"       | ±.110" (2.794mm)    |
|                          | 18"-24"       | ±.120" (3.048mm)    |
|                          | 24"-36"       | ±.150" (3.810mm)    |
| Over 36"                 | ±1% OF LENGTH |                     |
| Exposed Conductor Length |               | ±.030" (.76MM)      |
| Stiffener Length         |               | ±.050" (1.27MM)     |
| Pitch                    |               | ±.005" (.127MM)     |
| Span                     |               | ±.005" (.127MM)     |
| Margin                   |               | ±.005" (.127MM)     |
| Cable Width              |               | ±.005" (.127MM)     |

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| SCALE | NA    |         |  | SHEET 3 OF 4 |

# Standard ZIF Cable - Reverse side exposure



## Notes:

Cable Width = (# of conductors +1)\*( Pitch )

Span = ( # of conductors - 1 )\*( Pitch )

Mating Thickness = .012" ( .305mm )

Insulation = .002" Polyester with .0015" Flame Retardent Adhesive

Conductors = Copper Tin Plated

Temperature rating = -55°C to 105°C

Dielectric Strength = 2500 Volts/Mil

UL Flame Rating = VW-1

Insulation Resistance = 10 Megaohm min.

Marking - Minimum marking to be " PARLEX and Date Code". On cables where spacing does not allow parts will not be marked.

| Pitch           | Margin          | Exposed Conductor | Stiffener Length | Copper Thickness | Copper Width    | UL Style #   | Current Rating |
|-----------------|-----------------|-------------------|------------------|------------------|-----------------|--------------|----------------|
| .0197" (.500mm) | .014" (.356mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .011" (.280mm)  | 20890        | .50 AMPS       |
| .0246" (.625mm) | .017" (.422mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .016" (.406mm)  | 20890        | .50 AMPS       |
| .025" (.635mm)  | .020" (.495mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .011" (.280mm)  | 20890        | .50 AMPS       |
| .0315" (.800mm) | .023" (.572mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .019" (.483mm)  | 20566        | .80 AMPS       |
| .0394" (1.00mm) | .026" (.660mm)  | .140" (3.556mm)   | .237" (6mm)      | .003" (.076mm)   | .026" (.660mm)  | 20566        | 1.5 AMPS       |
| .0492" (1.25mm) | .033" (.845mm)  | .170" (4.318mm)   | .294" (7.5mm)    | .003" (.076mm)   | .0315" (.800mm) | 20566 & 2643 | 2.0 AMPS       |
| .050" (1.27mm)  | .034" (.864mm)  | .170" (4.318mm)   | .294" (7.5mm)    | .003" (.076mm)   | .0315" (.800mm) | 20566 & 2643 | 2.0 AMPS       |
| .100" (2.54mm)  | .069" (1.753mm) | .240" (6.096mm)   | .394" (10mm)     | .003" (.076mm)   | .062" (1.575mm) | 2643         | 3.0 AMPS       |

| Dimension                |               | Standard Tolerances |
|--------------------------|---------------|---------------------|
| Cable Length             | 0-3"          | ±.075" (1.905mm)    |
|                          | 3"-6"         | ±.100" (2.54mm)     |
|                          | 6"-12"        | ±.125" (3.175mm)    |
|                          | 12"-18"       | ±.150" (3.810mm)    |
|                          | 18"-24"       | ±.200" (5.08mm)     |
|                          | 24"-36"       | ±.250" (6.35mm)     |
| Over 36"                 | ±1% OF LENGTH |                     |
| Exposed Conductor Length |               | ±.030" (.76MM)      |
| Stiffener Length         |               | ±.050" (1.27MM)     |
| Pitch                    |               | ±.005" (.127MM)     |
| Span                     |               | ±.005" (.127MM)     |
| Margin                   |               | ±.005" (.127MM)     |
| Cable Width              |               | ±.005" (.127MM)     |

## UL Style # Notes

20890 = .008" Min spacing between conductors, Voltage rating = 90 Volts

20566 = .010" Min spacing between conductors, Voltage rating = 90 Volts

2643 = .016" Min spacing between conductors, Voltage rating = 300 Volts

|       |       |              |           |
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