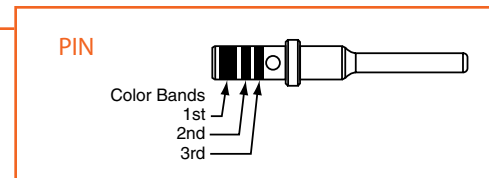


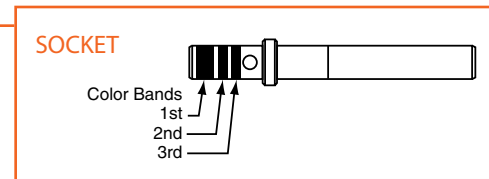
### STANDARD CRIMP CONTACTS - PIN PART NUMBERS / COLOR BANDS

| Contact Size | Pin MS Spec Number | Pin Pyle Part Number | Pin Color Bands |          |          |
|--------------|--------------------|----------------------|-----------------|----------|----------|
|              |                    |                      | 1st Band        | 2nd Band | 3rd Band |
| 20           | M39029/4-110       | BA-4020-36LD         | Brown           | Brown    | Black    |
| 16           | M39029/4-111       | BA-4016-36LD         | Brown           | Brown    | Brown    |
| 12           | M39029/4-113       | BA-4012-36LD         | Brown           | Brown    | Orange   |



### STANDARD CRIMP CONTACTS - SOCKET PART NUMBERS / COLOR BANDS

| Contact Size | Socket MS Spec Number | Socket Pyle Part Number | Socket Color Bands |          |          |
|--------------|-----------------------|-------------------------|--------------------|----------|----------|
|              |                       |                         | 1st Band           | 2nd Band | 3rd Band |
| 20           | M39029/5-115          | BA-4120-36LD            | Brown              | Brown    | Green    |
| 16           | M39029/5-116          | BA-4116-36LD            | Brown              | Brown    | Blue     |
| 12           | M39029/5-118          | BA-4112-36LD            | Brown              | Brown    | Gray     |



Sockets feature 4 tine construction with supporting spring bands.

### STANDARD CRIMP CONTACT RATING

| Contact Size | Test Current Standard | Crimp Well Data |             |                 |             |
|--------------|-----------------------|-----------------|-------------|-----------------|-------------|
|              |                       | Well Diameter   |             | Min. Well Depth |             |
|              |                       | Inches          | Millimeters | Inches          | Millimeters |
| 20           | 7.5                   | .049            | 1.25        | .157            | 3.99        |
| 16           | 13.0                  | .067            | 1.70        | .250            | 6.35        |
| 12           | 23.0                  | .100            | 2.54        | .250            | 6.35        |

### STANDARD SEALING PLUGS

| Contact Size | Sealing Plug MS Number | Sealing Plug Pyle Number | Color  |
|--------------|------------------------|--------------------------|--------|
| 20           | MS27488-20             | BA-4020-59P              | Red    |
| 16           | MS27488-16             | BA-4016-59P              | Blue   |
| 12           | MS27488-12             | BA-4012-59P              | Yellow |

### TOOLS

| Contact Size | Crimp Tool  |             | Adjustable Turret |             | Checking Gauge for M22520/1-01 Crimping Tool |             | Insertion/Removal Tool |                 |                  |
|--------------|-------------|-------------|-------------------|-------------|----------------------------------------------|-------------|------------------------|-----------------|------------------|
|              | MS Number   | Pyle Number | MS Number         | Pyle Number | MS Number                                    | Pyle Number | MS Number              | Pyle Number     | Amphenol Number* |
| 20           | M22520/1-01 | TP-201354   | M22520/1-02       | TP-201355   | M22520/3                                     | TP-201356   | M81969/14-11           | TP-201343-20-BA | 10-538988-201    |
| 16           |             |             |                   |             |                                              |             | M81969/14-03           | TP-201343-16-BA | 10-538988-016    |
| 12           |             |             |                   |             |                                              |             | M81969/14-04           | TP-201343-12-BA | 10-538988-012    |

\* Amphenol part number for insertion/removal tool supersedes Pyle number

### BACKSHELLS

The section of this catalog called "Backshells" covers the backshells for MIL-DTL-83723, Series III Pyle connectors that are provided through Amphenol PCD. Please refer to this section for:

- Backshells for Connector Family "J", which includes MIL-DTL-26482 (Series II), MIL-DTL-5015 (MS3400), MIL-DTL-83723 (Series I & III).

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Reel  
Release  
Matrix

22992  
Class I

Back-  
Shells

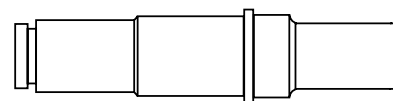
Options  
Others

## MIL-DTL-83723, Series III, Pyle® Shielded Contacts, Thermocouple Contacts, Wire Sealing Information

### SHIELDED CONCENTRIC TWINAX CONTACTS

| Contact Size | Cable Accommodation     | Concentric Twinax Pin |
|--------------|-------------------------|-----------------------|
| #8 Twinax    | M17/176-00002           | BA-46T08-LD           |
| #8 Twinax    | PAN 6421 or JN1060ZB002 | BA-46TA08-LD          |

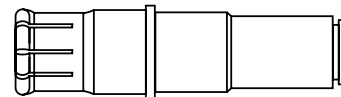
CONCENTRIC  
TWINAX PIN



Non-MS part; no color bands.

| Contact Size | Cable Accommodation     | Concentric Twinax Socket |
|--------------|-------------------------|--------------------------|
| #8 Twinax    | M17/176-00002           | BA-47T08-LD              |
| #8 Twinax    | PAN 6421 or JN1060ZB002 | BA-47TA08-LD             |

CONCENTRIC  
TWINAX SOCKET



Non-MS part; no color bands.

Concentric Twinax contacts are designed for protection from magnetic and electrostatic interference including nuclear electromagnetic pulse. Consult Amphenol for other size twinax and coax contacts available for use in MIL-DTL-83723, Series III Pyle connectors.

### THERMOCOUPLE - PIN PART NUMBERS / COLOR BANDS

| Contact Size | Material | Thermocouple Pin Pyle Part Number | Thermocouple Pin Color Bands |          |          |
|--------------|----------|-----------------------------------|------------------------------|----------|----------|
|              |          |                                   | 1st Band                     | 2nd Band | 3rd Band |
| 20           | Chromel  | BT-4020-10P                       | Brown                        | Orange   | Green    |
| 20           | Alumel   | BT-4020-10R                       | Brown                        | Orange   | Yellow   |
| 16           | Chromel  | BA-4016-10P                       | Green                        | Brown    | Violet   |
| 16           | Alumel   | BA-4016-10R                       | Green                        | Brown    | Blue     |

### THERMOCOUPLE - SOCKET PART NUMBERS / COLOR BANDS

| Contact Size | Material | Thermocouple Socket Pyle Part Number | Reference Thermocouple Socket MS Part Number | Thermocouple Socket Color Bands |          |          |
|--------------|----------|--------------------------------------|----------------------------------------------|---------------------------------|----------|----------|
|              |          |                                      |                                              | 1st Band                        | 2nd Band | 3rd Band |
| 20           | Chromel  | BT-4120-10P                          | –                                            | Brown                           | Yellow   | Brown    |
| 20           | Alumel   | BT-4120-10R                          | –                                            | Brown                           | Yellow   | Black    |
| 16           | Chromel  | BT-4116-10P                          | Ref M39029/10-522                            | Green                           | Red      | Red      |
| 16           | Alumel   | BT-4116-10R                          | Ref M39029/10-521                            | Green                           | Red      | Brown    |

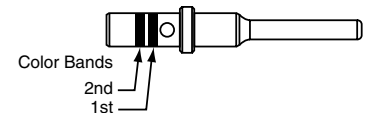
### STANDARD & HIGH TEMPERATURE CRIMP CONTACTS WIRE SEALING DIAMETERS / STRIPPING LENGTHS

| Contact Size | Wire Size (AWG) | Finished Wire Outside |             |         |             | Stripping Lengths |             |         |             |
|--------------|-----------------|-----------------------|-------------|---------|-------------|-------------------|-------------|---------|-------------|
|              |                 | Minimum               |             | Maximum |             | Minimum           |             | Maximum |             |
|              |                 | Inches                | Millimeters | Inches  | Millimeters | Inches            | Millimeters | Inches  | Millimeters |
| 20           | 24, 22, 20      | .033                  | .84         | .083    | 2.11        | .140              | 3.56        | .202    | 5.13        |
| 16           | 20, 18, 16      | .047                  | 1.19        | .106    | 2.69        | .218              | 5.54        | .280    | 7.11        |
| 12           | 14, 12          | .075                  | 1.91        | .157    | 3.99        | .218              | 5.54        | .280    | 7.11        |

### CONTACTS THAT MEET EUROPEAN SPECIFICATIONS STANDARD CRIMP - PIN PART NUMBERS / COLOR BANDS

| Contact Size | Pin Pyle Part Number | Pin Color Bands |          |     |
|--------------|----------------------|-----------------|----------|-----|
|              |                      | 1st Band        | 2nd Band | Dot |
| 20           | BA-4020-36LD-Y165    | Red             | Red      | –   |
| 20/18*       | BA-402018-36LD-Y165  | Red             | Violet   | –   |
| 16           | BA-4016-36LD-Y165    | Blue            | Blue     | –   |
| 12           | BA-4012-36LD-Y165    | Yellow          | Yellow   | –   |

#### STANDARD PIN EUROPEAN SPEC

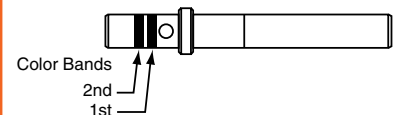


First band color is for contact size  
2nd band color is for AWG wire size

### CONTACTS THAT MEET EUROPEAN SPECIFICATIONS STANDARD CRIMP - SOCKET PART NUMBERS / COLOR BANDS

| Contact Size | Socket Pyle Part Number | Socket Color Bands |          |     |
|--------------|-------------------------|--------------------|----------|-----|
|              |                         | 1st Band           | 2nd Band | Dot |
| 20           | BA-4120-36LD-Y165       | Red                | Red      | –   |
| 20/18*       | BA-412018-36LD-Y165     | Red                | Violet   | –   |
| 16           | BA-4116-36LD-Y165       | Blue               | Blue     | –   |
| 12           | BA-4112-36LD-Y165       | Yellow             | Yellow   | –   |

#### STANDARD SOCKET EUROPEAN SPEC

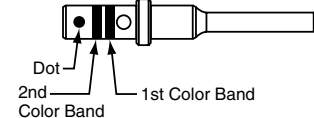


First band color is for contact size  
2nd band color is for AWG wire size

### CONTACTS THAT MEET EUROPEAN SPECIFICATIONS HIGH TEMPERATURE - PIN PART NUMBERS / COLOR BANDS

| Contact Size | Pin Pyle Part Number | Pin ESC30 Part Number | Pin Color Bands |          |       |
|--------------|----------------------|-----------------------|-----------------|----------|-------|
|              |                      |                       | 1st Band        | 2nd Band | Dot   |
| 20           | BA-4020-50LD         | ESC30-P20BC           | Red             | Red      | White |
| 20/18*       | BA-402018-50LD       | –                     | Red             | Violet   | White |
| 16           | BA-4016-50LD         | ESC30-P16BC           | Blue            | Blue     | White |
| 12           | BA-4012-50LD         | ESC30-P12BC           | Yellow          | Yellow   | White |

#### HIGH TEMPERATURE PIN EUROPEAN SPEC

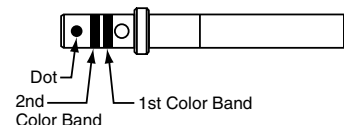


First band color is for contact size  
2nd band color is for AWG wire size  
Dot identifies High Temperature or Thermocouple contacts

### CONTACTS THAT MEET EUROPEAN SPECIFICATIONS HIGH TEMPERATURE - SOCKET PART NUMBERS / COLOR BANDS

| Contact Size | Socket Pyle Part Number | Socket ESC30 Part Number | Socket Color Bands |          |       |
|--------------|-------------------------|--------------------------|--------------------|----------|-------|
|              |                         |                          | 1st Band           | 2nd Band | Dot   |
| 20           | BA-4120-50LD            | ESC30-S20BC              | Red                | Red      | White |
| 20/18*       | BA-412018-50LD          | –                        | Red                | Violet   | White |
| 16           | BA-4116-50LD            | ESC30-S16BC              | Blue               | Blue     | White |
| 12           | BA-4112-50LD            | ESC30-S12BC              | Yellow             | Yellow   | White |

#### HIGH TEMPERATURE SOCKET EUROPEAN SPEC



First band color is for contact size  
2nd band color is for AWG wire size  
Dot identifies High Temperature or Thermocouple contacts

\* #20 contacts with #18 crimpwell

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH  
SPEED

Fiber  
Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class 1

Back-  
Shells

Options  
Others

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

### CONTACTS THAT MEET EUROPEAN SPECIFICATIONS THERMOCOUPLE - PIN PART NUMBERS / COLOR BANDS

| Contact Size | Material | Pin Pyle Part Number | Pin ESC30 Part Number | Pin Color Bands |          |        |
|--------------|----------|----------------------|-----------------------|-----------------|----------|--------|
|              |          |                      |                       | 1st Band        | 2nd Band | Dot    |
| 20           | Chromel  | BT-4020-10P-Y165     | ESC30-P20NC           | Red             | Red      | Yellow |
| 20           | Alumel   | BT-4020-10R-Y165     | ESC30-P20NA           | Red             | Red      | Black  |
| 20/18*       | Chromel  | BT-402018-10P-Y165   | –                     | Red             | Violet   | Yellow |
| 20/18*       | Alumel   | BT-402018-10R-Y165   | –                     | Red             | Violet   | Black  |
| 16           | Chromel  | BT-4016-10P-Y165     | ESC30-P16NC           | Blue            | Blue     | Yellow |
| 16           | Alumel   | BT-4016-10R-Y165     | ESC30-P16NA           | Blue            | Blue     | Black  |

### CONTACTS THAT MEET EUROPEAN SPECIFICATIONS THERMOCOUPLE - SOCKET PART NUMBERS / COLOR BANDS

| Contact Size | Material | Socket Pyle Part Number | Socket ESC30 Part Number | Socket Color Bands |          |        |
|--------------|----------|-------------------------|--------------------------|--------------------|----------|--------|
|              |          |                         |                          | 1st Band           | 2nd Band | Dot    |
| 20           | Chromel  | BT-4120-10P-Y165        | ESC30-S20NC              | Red                | Red      | Yellow |
| 20           | Alumel   | BT-4120-10R-Y165        | ESC30-S20NA              | Red                | Red      | Black  |
| 20/18*       | Chromel  | BT-412018-10P-Y165      | –                        | Red                | Violet   | Yellow |
| 20/18*       | Alumel   | BT-412018-10R-Y165      | –                        | Red                | Violet   | Black  |
| 16           | Chromel  | BT-4116-10P-Y165        | ESC30-S16NC              | Blue               | Blue     | Yellow |
| 16           | Alumel   | BT-4116-10R-Y165        | ESC30-S16NA              | Blue               | Blue     | Black  |

### HIGH TEMPERATURE SEALING PLUGS

| Contact Size | Sealing Plug Pyle Number | Color  |
|--------------|--------------------------|--------|
| 20           | BT-4020-60P              | Red    |
| 16           | BT-4016-60P              | Blue   |
| 12           | BT-4012-60P              | Yellow |

HIGH SPEED

Fiber Optics

Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

22992 Class L

Back-Shells

Options Others