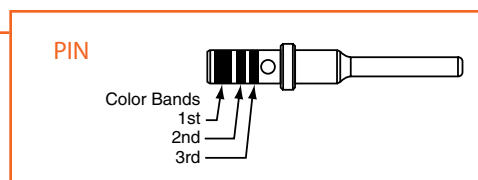


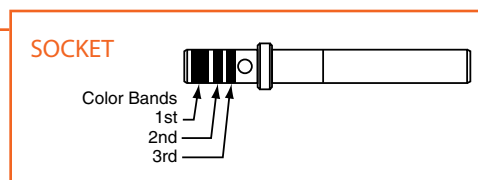
### STANDARD CRIMP CONTACTS - PIN PART NUMBERS / COLOR BANDS

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
M81969/14-03							TP-201343-16-BA	10-538988-016	
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 Rear Release Matrix

22992  
Class 1

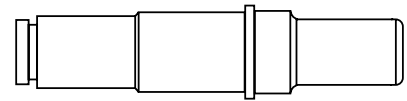
Back-Shell's

Options  
Others

**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

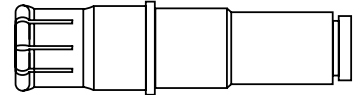
CONCENTRIC TWINAX PIN



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

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

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PCB

HIGH SPEED

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Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix Pyle

26500 Pyle

5015 Crimp Rear Release Matrix

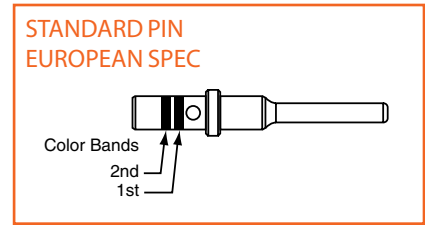
22992 Class I

Back-Shells

Options Others

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

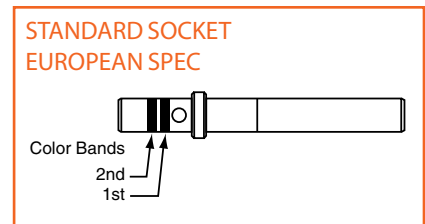
Contact Size	Pin Pyle Part Number	Pin Color Bands		
		1st Band	2nd Band	Dot
20	BA-4020-36LD-Y165	Red	Red	-
20/18*	BA-402018-36LD-Y165	Red	Violet	-
16	BA-4016-36LD-Y165	Blue	Blue	-
12	BA-4012-36LD-Y165	Yellow	Yellow	-



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

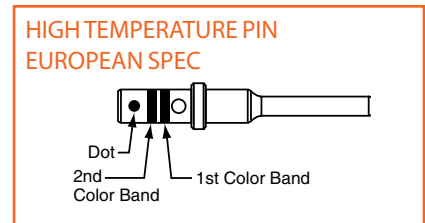
Contact Size	Socket Pyle Part Number	Socket Color Bands		
		1st Band	2nd Band	Dot
20	BA-4120-36LD-Y165	Red	Red	-
20/18*	BA-412018-36LD-Y165	Red	Violet	-
16	BA-4116-36LD-Y165	Blue	Blue	-
12	BA-4112-36LD-Y165	Yellow	Yellow	-



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

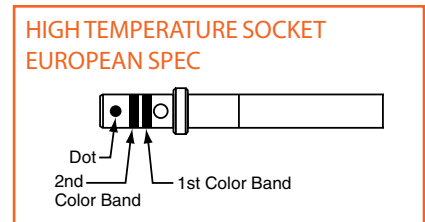
Contact Size	Pin Pyle Part Number	Pin ESC30 Part Number	Pin Color Bands		
			1st Band	2nd Band	Dot
20	BA-4020-50LD	ESC30-P20BC	Red	Red	White
20/18*	BA-402018-50LD	-	Red	Violet	White
16	BA-4016-50LD	ESC30-P16BC	Blue	Blue	White
12	BA-4012-50LD	ESC30-P12BC	Yellow	Yellow	White



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



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
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- PCB

- HIGH SPEED
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- Contacts Connectors Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear Release Matrix

22992  
Class 1

Back-Shell's

Options  
Others

38999

**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

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

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Back-  
Shells

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