LVPS Crates-to-MuID Panels, cont.

- Power fanned out into 15 separate channels, each polyfused at I_{Hold} = 0.5A, I_{Trip} = 1A (RXE050).
- Power brought from internal board to front panel.
  - Molex connector (WM2113/4622, rated UL 94V-0).
  - Alpha # 83005 (22 AWG, passes VW-1 vertical flame test).
  - AMP CPC connector (206430-1, rated UL 94V-0).
- Power brought from distribution box front panel to MUID panels.
  - Alpha # 5630B1801 (18 AWG, passes VW-1 vertical flame test, 1000 feet total).
  - AMP CPC connectors (206060-1, 206429-1, rated UL 94V-0).

Associated Data Sheets

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CPC (Circular Plastic) & Metal-Shell CPC Connectors
CPC Connectors

206060-1 - *1 of 1 products* Active Y2K - OK

ASSEMBLY SUBCONTRACTORS | STEP SEARCH | CAD GEOMETRY | DRAWINGS SPECIFICATIONS | SALES INFO | GENERAL INFO

Please use the customer drawing for all design activity.

- **Customer Drawing: 206060**, Rev. G
  Document Title: PLUG ASSEMBLY, STANDARD SEX, SERIES 1, 11-4, CPC
  180963.pdf (57K)

Searchable Features:

Product Type:	Connector
No. of Positions:	4
Sex:	Plug
Preloaded:	No
Pin/Socket:	Socket
Terminate To:	Wire
Shell Size:	11
Shell Type:	All Plastic
Shell Thread Size:	5/8 - 24 UNEF-2A
Numbering:	Standard
Product Series:	Series 1
Panel Attachment:	No
Sealed:	No
VDE Tested:	No
Sealing Type:	None
Standard or Reverse Sex:	Standard

Other Properties:

Housing Material:	Thermoplastic
Housing Material Flammability Rating:	UL 94V-0
Housing Color:	Black
Keying:	A
Comment:	Standard 5 Locating Key Arrangement

CPC (Circular Plastic) & Metal-Shell CPC Connectors
CPC Connectors

206060-1 - *1 of 1 products* Active Y2K - OK

ASSEMBLY SUBCONTRACTORS | STEP SEARCH | CAD GEOMETRY | DRAWINGS SPECIFICATIONS | SALES INFO | GENERAL INFO

Please use the customer drawing for all design activity.

- **Customer Drawing: 206060**, Rev. G
  Document Title: PLUG ASSEMBLY, STANDARD SEX, SERIES 1, 11-4, CPC
  180963.pdf (57K)

Searchable Features:

Product Type:	Connector
No. of Positions:	4
Sex:	Plug
Preloaded:	No
Pin/Socket:	Socket
Terminate To:	Wire
Shell Size:	11
Shell Type:	All Plastic
Shell Thread Size:	5/8 - 24 UNEF-2A
Numbering:	Standard
Product Series:	Series 1
Panel Attachment:	No
Sealed:	No
VDE Tested:	No
Sealing Type:	None
Standard or Reverse Sex:	Standard

Other Properties:

Housing Material:	Thermoplastic
Housing Material Flammability Rating:	UL 94V-0
Housing Color:	Black
Keying:	A
Comment:	Standard 5 Locating Key Arrangement

Products
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CPC (Circular Plastic) & Metal-Shell CPC Connectors
CPC Connectors

206430-1 - *1 of 1 products* Active Y2K OK

ASSEMBLY SUBCONTRACTORS | STEP SEARCH | CAD GEOMETRY | DRAWINGS SPECIFICATIONS | SALES INFO | GENERAL INFO

Please use the customer drawing for all design activity.

- **Customer Drawing: 206430**, Rev. G
  Document Title: RECEPTACLE HOUSING, REVERSE SEX, SHELL SIZE 11, CPC
  167419.pdf (55K)

Line art and other pictures below are general representations of product dimensions, please use the customer drawing for all design activity.

Contact Arrangement | Panel Cutout
Keying Options | Product Photo

Searchable Features:

Product Type:	Connector
No. of Positions:	4
Sex:	Receptacle
Preloaded:	No
Pin/Socket:	Socket
Terminate To:	Wire
Shell Size:	11
Shell Type:	All Plastic
Shell Thread Size:	5/8 - 24 UNEF-2A
Numbering:	Reverse
Product Series:	Series 1
Panel Attachment:	Yes
Panel Hole Type:	Mounting Holes

Other Properties:

Wire Insulation Diameter (mm [in]):	2.54 [.100] Max.
Panel Attachment Method:	Square Flange
Housing Material:	Thermoplastic
Housing Material Flammability Rating:	UL 94V-0
Housing Color:	Black
Keying:	A
Comment:	Standard 5 Locating Key Arrangement

Figure 9.1: AMP CPC data sheets.

10-05-1999 02:47PM R : S Corp. 423 588 4457 P.09

processing costs are relatively high.

Belden® Teflon wire products are highly recommended for miniature cable applications because of their superior thermal and electrical properties. Teflon is especially suitable for internal wiring-soldering applications where insulation melt back is a specific problem. Belden wiring products insulated with Teflon are outstanding in their

... gasoline, acids, alkalis, aromatic hydrocarbons, and solvents.

Belden welcomes inquiries for the following type designations for MIL-W-16878/: 1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 34, and 35.

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Color Code (See color code chart on page 53.)
		ft.	m			Inch	mm	Inch	mm	

UL Style 1180 300V, 200°C

(Type EE)—MIL-W-16878E/6 Teflon—1000V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

Description UL AWM Style	Trade No.	ft.	m	Std. Unit Lbs. ea.	AWG (stranding)	Insulation Inch	Insulation mm	O.D. Inch	O.D. mm	Color Code
	[illegible]									
UL 1180	83025	100• 500• 1000•	30.5 152.4 304.8	.5 2.4 4.5	22 (7x30)	.015	.38	.060	1.52	1–7, 9, 10
	[illegible]									
	83027	100• 500• 1000•	30.5 152.4 304.8	1.4 3.4 6.6	20 (19x32)	.015	.38	.068	1.73	1–10
	[illegible]									
18 awg teflon wire	83029	100• 500• 1000•	30.5 152.4 304.8	1.1 4.7 9.2	18 (19x30)	.015	.38	.077	1.96	1–10
	[illegible]									

UL Style 1213 105°C

(Type E)—MIL-W-16878E/4 Teflon—600V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

Description UL AWM Style	Trade No.	ft.	m	Std. Unit Lbs. ea.	AWG (stranding)	Insulation Inch	Insulation mm	O.D. Inch	O.D. mm	Color Code
UL 1213	83000	100• 500 1000•	30.5 152.4 304.8	.1 .6 1.2	30 (7x38)	.010	.25	.032	.81	1–10 (100) 2-5, 8–10 (500) 1–10 (1000)

Figure 9.2: Low-voltage distribution box - internal wire #1 data sheet.

10-05-1999 02:46PM R I S Corp. 423 588 4457 P.07

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths ft.	Standard Lengths m	Std. Unit Lbs. ea.	AWG (stranding)	Thickness inch	Thickness mm	O.D. inch	O.D. mm	(See color code chart on page 33)

UL Style 1213 105°C (cont'd.)
(Type E)—MIL-W-16878E/4 Teflon—600V, 200°C

Product Description
Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

Description UL AWM Style	Trade No.	ft.	m	Lbs. ea.	AWG (stranding)	inch	mm	inch	mm	Colors
UL 1213	83003	100• 500• 1000•	30.5 152.4 304.8	.2 1.3 2.7	24 (19x36)	.010	.25	.044	1.12	1–10
22awg teflon wire	83005	100• 500• 1000•	30.5 152.4 304.8	.5 1.9 3.6	22 (7x30)	.010	.25	.050	1.27	1–10
	83007	100• 500• 1000•	30.5 152.4 304.8	.6 2.9 5.3	20 (19x32)	.010	.25	.056	1.42	1–10

UL Style 1371 105°C
(Type E)—MIL-W-16878E/4 Teflon—600V, 200°C

Product Description
Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

Description UL AWM Style	Trade No.	ft.	m	Lbs. ea.	AWG (stranding)	inch	mm	inch	mm	Colors
UL 1371	83008	100• 500• 1000•	30.5 152.4 304.8	1.0 4.1 8.0	18 (19x30)	.011	.28	.069	1.75	1–10

UL Style 1371 105°C
(Type ET)—MIL-W-16878E/6 Teflon—250V, 200°C

Product Description
Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

Description UL AWM Style	Trade No.	ft.	m	Lbs. ea.	AWG (stranding)	inch	mm	inch	mm	Colors
UL 1371	83044	100• 1000•	30.5 304.8	.2 .8	32 (7x40)	.006	.15	.022	.56	6, 7, 10

Figure 9.3: Low-voltage distribution box - internal wire #2 data sheet.