**D38999 Derived Cat5e / Cat6 & Cat6a RJ45 Connector Assemblies for Harsh Environments**

- **PC4B0002**
  - Cat 5e Box Mount Feedthrough Receptacle
- **PC4F0002**
  - Cat 5e Jam Nut Feedthrough Receptacle
- **PC4D0002**
  - Cat 5e Free Plug
- **PC4D000291**
  - Cat 5e Free Plug (91 Series with Spring Screen Termination)
- **PC4B0029**
  - Cat6 Jam Nut Feedthrough Receptacle
- **PC4F0020**
  - Cat6 Jam Nut Feedthrough Receptacle
- **PC4D0024**
  - Cat6 Plug Connector Assembly
- **PC4B0022**
  - Cat6a Box Mount Feedthrough Receptacle
- **PC4F0014**
  - Cat6a Jam Nut Feedthrough Receptacle
- **PC4D0018 & PC4D0018**
  - Cat6a Free Plug
- **PC4D0023**
  - Cat6a Field Plug Connector Assembly

**Performance**
- Cat 5e per ISO/IEC 11801
- Cat 6 1Gb with enhanced grounding option
- Cat 6a 10Gb with enhanced grounding option
- D38999 shell size 19
- Sealed to IP68 for fluid and dust laden environments
- High levels of shock, vibration and mechanical impact protection
- Fully enclosed Aluminium, Marine Bronze and Stainless Steel shells for superior mechanical strength
- Positive cordset retention >100N axial force
- Optional external screen termination features on cable plug
- Isolated RJ-to-shell grounding option

The Polamco high speed RJ45 connector system incorporates a MIL-DTL-38999 series III derived metal shell with full 360 degree EMC and mechanical protection and has been designed to meet the requirements of high speed data connections where reliability through environmental sealing and enhanced mechanical protection and EMC performance are required.
RJ45 Cat5 Connectors
PC4B0002 - Box Mount Feedthrough Receptacle

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
RJ45
CONTACTS 30µ Au/Ni
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE MS749ECR TO BS6853 CAT 1
INSULATOR - PPS GL40 UL94
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING FOR POWER CONTACTS 2.1 AMPS @ 70°C
VOLTAGE RATING 50V DC / 35V AC
TEMPERATURE -40°C TO +120°C

EXAMPLE PART NUMBER: PC4B0002-C-19N-1-C
PC4B0002 = POLAMCO SERIES
C = RJ45 STYLE
A = 4 WAY
B = 4 WAY + 2 POWER CONTACTS
C = 8 WAY (STANDARD)
D = 8 WAY + 2 POWER CONTACTS
19 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16

PART NUMBER FOR UNGROUNDED VERSION: PC4B0002-C-U-19N-1-C

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

Tel: +44 (0)845 017 1545

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**RJ45 Cat5 Connectors**

**PC4F0002 - Feedthrough Jam Nut Receptacle**

Connector Modifications: See Page 252

---

**NOTES**

GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

**MATERIALS**

RJ45

CONTACTS 30µ Au/Ni

SHIELDING - NICKEL PLATED BRASS

BODY - PA, UL94V-0

PCB - FR4, UL94V-0

**SEAL**

- SILICONE MS749ECR TO BS6853 CAT 1

**INSULATOR**

- PPS GL40 UL94

**POTTING**

- QSI 550 UL94V-0

**PERFORMANCE**

- CURRENT RATING FOR POWER CONTACTS 2.1 AMPS @ 70°C

- VOLTAGE RATING 50V DC / 35V AC

- TEMPERATURE -40°C TO +120°C

**EXAMPLE PART NUMBER: PC4F0002-C-19N-1-C**

<table>
<thead>
<tr>
<th>PC4F0002</th>
<th>POLAMCO SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>RJ45 STYLE</td>
</tr>
<tr>
<td>A</td>
<td>4 WAY</td>
</tr>
<tr>
<td>B</td>
<td>4 WAY + 2 POWER CONTACTS</td>
</tr>
<tr>
<td>C</td>
<td>8 WAY (STANDARD)</td>
</tr>
<tr>
<td>D</td>
<td>8 WAY + 2 POWER CONTACTS</td>
</tr>
<tr>
<td>19</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>

PART NUMBER FOR UNGROUNDED VERSION: PC4F0002-C-U-19N-1-C
**RJ45 Cat5 Connectors**

**PC4D0002 - Plug Connector Assembly**

**RJ45 Cat5 Tooling Options:** See Page 235

**Connector Modifications:** See Page 252

---

**NOTES**

GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

**MATERIALS**

RJ45

CONTACTS 30µ Au/Ni

SHIELDING - NICKEL PLATED BRASS

BODY - PA, UL94V-0

---

**EXAMPLE PART NUMBER: PC4D0002-C-19N-1-C**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC4D0002</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>C =</td>
<td>RJ45 STYLE</td>
</tr>
<tr>
<td>A = 4 WAY 4 x 24AWG</td>
<td></td>
</tr>
<tr>
<td>B = 4 + 2 WAY 4 x 24AWG + 2 x 22AWG</td>
<td></td>
</tr>
<tr>
<td>C = 8 WAY 8 x 26 AWG (STANDARD)</td>
<td></td>
</tr>
<tr>
<td>D = 8 + 2 WAY 8 x 26AWG + 2 x 23AWG</td>
<td></td>
</tr>
<tr>
<td>19 =</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N =</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1 =</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C =</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>

PART NUMBER FOR UNGROUNDED VERSION: PC4D0002-C-U-19N-1-C

---

SEAL - SILICONE MS749ECR TO BS6853 CAT 1

**PERFORMANCE**

CURRENT RATING FOR POWER CONTACTS 2.1 AMPS @ 70°C

VOLTAGE RATING 50V DC / 35V AC

TEMPERATURE -40°C TO +120°C

---

**Connector Modifications:** See Page 252

**RJ45 Cat5 Tooling Options:** See Page 235

---

**Tel:** +44 (0)845 017 1545

**Drawing Not To Scale**

**Dimensions in MM**

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### RJ45 Cat5 Connectors
**PC4D000291**

**Plug Connector Assembly for Double Screened Applications**

*RJ45 Cat5 Tooling Options: See Page 235*

*Connector Modifications: See Page 252*

- **RJ45, CAT5 CABLE PLUG WITH INTEGRATED CABLE GUIDE, SHIELDING AND CABLE CRIMP GROUND**
- **TO OUTER SHELL**
- **DATA TRANSFER RATE TESTED TO 1 GIGABIT**
- **CONTACT SALES OFFICE FOR TEST RESULTS**

**PART MARK HERE**

**NOTES**

- **GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999**
- **MATERIALS**
  - RJ45
  - CONTACTS 30μ Au/Ni
  - SHIELDING - NICKEL PLATED BRASS
  - BODY - PBT, UL94V-0
- **PERFORMANCE**
  - **CURRENT RATING FOR POWER CONTACTS 2.1 AMPS @ 70°C**
  - **VOLTAGE RATING 50V DC / 35V AC**
  - **TEMPERATURE -40°C TO +120°C**

**EXAMPLE PART NUMBER: PC4D000291-C-19N-1-C**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC4D000291</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>C</td>
<td>RJ45 STYLE</td>
</tr>
<tr>
<td>A</td>
<td>4 DATA CONTACTS (4 x 24AWG)</td>
</tr>
<tr>
<td>B</td>
<td>4 DATA + 2 POWER CONTACTS (4 x 24AWG + 2 x 22AWG)</td>
</tr>
<tr>
<td>C</td>
<td>8 DATA CONTACTS (8 x 26 AWG + 2x23AWG)</td>
</tr>
<tr>
<td>D</td>
<td>8 + 2 WAY 8 x 26AWG + 2 x 23AWG</td>
</tr>
<tr>
<td>19</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>

**PART NUMBER FOR UNGROUNDED VERSION: PC4D000291-C-U-19N-1-C**

**Connector Modifications: See Page 252**

**RJ45, CAT5 PLUG SUPPLIED WITH CONNECTOR ASSEMBLY**

**CABLE SEALING GROMMET**

**CABLE SHOWN FOR CLARITY ONLY**

**SUPPLIED WITH HE100 SPRING**

**LIP FOR HEAT SHRINK BOOT**

**$\phi_{6.90 \times 0.50}$ CABLE SEALING DIAMETER**

**PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED**

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**www.polamco.com**
RJ45 Cat6 Connectors
PC4B0029 - Feedthrough Jam Nut Receptacle

Connector Modifications: See Page 252

RJ45, CAT6 FEEDTHROUGH CONNECTOR GROUNDED TO OUTER SHELL
DATA TRANSFER RATE TESTED TO 1 GIGABIT, CONTACT SALES OFFICE FOR TEST RESULTS

EXAMPLE PART NUMBER: PC4B0029-19NX-1-C-005

PC4B0029 = POLAMCO SERIES
19 = SHELL SIZE
N = ALTERNATE KEYING
X = INSERT ROTATION (w, x, y, z)
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16
005 = CABLE SEALING BACKSHELL

PART NUMBER FOR UNGROUNDED VERSION: PC4B0029-19NX-1-C-U

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999 MATES WITH AMPHENOL RJFTV FINISH
SEE PAGES 15 - 16
MATERIALS
RJ45 CONTACTS COPPER WITH SELECTIVE GOLD PLATE
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0PCB - FR4, UL94V-0
SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING FOR POWER CONTACTS 2.1 AMPS @ 70°C
VOLTAGE RATING 50V DC / 35V AC
TEMPERATURE -40°C TO +120°C
RJ45 Cat6 Connectors
PC4F0020 - Feedthrough Jam Nut Receptacle

Connector Modifications: See Page 252

Interconnect Solutions Worldwide

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999 MATES WITH AMPHENOL RJFTV FINISH
SEE PAGES 15 - 16
MATERIALS
RJ45
CONTACTS COPPER WITH SELECTIVE GOLD PLATE
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0
SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSI 550 UL94V-0

PERFORMANCE
VOLTAGE RATING 50V DC / 35V AC
TEMPERATURE -40°C TO +120°C

EXAMPLE PART NUMBER: PC4F0020-19NX-1-C
PC4F0020 = POLAMCO SERIES
19 = SHELL SIZE
N= ALTERNATE KEYING
X= INSERT ROTATION (w, x, y, z)
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16

PART NUMBER FOR UNGROUNDED VERSION: PC4F0020-19NX-1-C-U

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

www.polamco.com
Interconnect Solutions Worldwide

RJ45 Cat6 Connectors
PC4D0024 - Plug Connector Assembly

Connector Modifications: See Page 252

RJ45, CAT6 CABLE PLUG WITH INTEGRATED CABLE GUIDE, SHIELDING AND CABLE CRIMP GROUNDED TO OUTER SHELL FOR USE WITH AWG24/26 CABLE. DATA TRANSFER RATE TESTED TO 1 GIGABIT

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999 MATES WITH AMPHENOL RJFTV FINISH
SEE PAGES 15 - 16
MATERIALS
RJ45 CONTACTS COPPER WITH SELECTIVE GOLD PLATE SHIELDING - NICKEL PLATED BRASS BODY - PA, UL94V-0 SEAL - SILICONE ELASTOMER

PERFORMANCE
VOLTAGE RATING 50V DC / 35V AC TEMPERATURE -40°C TO +120°C

EXAMPLE PART NUMBER: PC4D0024-19NX-1-C-H

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC4D0024</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>19</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>ALTERNATE KEYING</td>
</tr>
<tr>
<td>X</td>
<td>INSERT ROTATION (w, x, y, z)</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
<tr>
<td>H</td>
<td>HIGH INTEGRITY GROUNDING (OMIT FOR STANDARD)</td>
</tr>
</tbody>
</table>

PART NUMBER FOR UNGROUNDED VERSION: PC4D0024-19NX-1-C-U

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED
RJ45 Cat6a Connectors
PC4B0022 - Feedthrough Receptacle Assembly

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
RJ45
CONTACTS COPPER WITH SELECTIVE GOLD PLATE
SHIELDING - NICKEL PLATED BRASS
BODY - PBT, UL94V-O
PCB - FR4, UL94V-O

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
VOLTAGE RATING 50V DC / 35V AC
TEMPERATURE -40°C TO +120°C

EXAMPLE PART NUMBER: PC4B0022-19N-1-C

PC4B0022 = POLAMCO SERIES
19 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16

PART NUMBER FOR UNGROUNDED VERSION: PC4B0022-19N-1-C-U

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

DRAWING NOT TO SCALE
DIMENSIONS IN MM

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RJ45 Cat6a Connectors
PC4F0014 - Feedthrough Jam Nut Receptacle

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
RJ45
CONTACTS COPPER WITH SELECTIVE GOLD PLATE
SHIELDING - NICKEL PLATED BRASS
BODY - PBT, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
VOLTAGE RATING 50V DC / 35V AC
TEMPERATURE -40°C TO +120°C

EXAMPLE PART NUMBER: PC4F0014-19N-1-C

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>PC4F0014</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>19</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>

PART NUMBER FOR UNGROUNDED VERSION: PC4F0014-19N-1-C-U

231

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

Tel: +44 (0)845 017 1545
**RJ45 Cat6a Connectors**
**PC4D0018 - Plug Connector Assembly**

RJ45 Cat6 & Cat6a Tooling Options: See Page 236
Connector Modifications: See Page 252

---

**NOTES**
Generally to the Requirements of MIL-DTL-38999

**MATERIALS**
- RJ45
  - Contacts Copper with Selective Gold Plate
  - Shielding - Nickel Plated Brass
  - Body - PBT, UL94V-0
  - Seal - Silicone

**PERFORMANCE**
- Voltage Rating: 50V DC / 35V AC
- Temperature: -40°C to +120°C

---

**EXAMPLE PART NUMBER: PC4D0018-19N-1-C-H**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PC4D0018</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>19</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
<tr>
<td>H</td>
<td>HIGH INTEGRITY GROUNDING (OMIT FOR STANDARD)</td>
</tr>
</tbody>
</table>

PART NUMBER FOR UNGROUNDED VERSION: PC4D0018-19N-1-C-U

---

**CABLE SEALS RANGE 0.70 ±0.05**
Cable shown for clarity only

---

**RJ45, CAT6A (10GB) WITH INTEGRATED CABLE GUIDE, SHIELDING AND CABLE CRIMP GROUNDED TO OUTER SHELL. UNLESS OPTION "U" IS SPECIFIED (REEDOMA) ISOLATED FROM OUTER SHELL. FOR USE WITH AM924/20 CABLE**

---

**OPTIONAL HIGH INTEGRITY GROUNDING RING**

---

**DRAWING NOT TO SCALE**
DIMENSIONS IN MM

---

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www.polamco.com
**RJ45 Cat6a Connectors**

**PC4D0018**

**Plug Connector Assembly for Double Screened Applications**

- RJ45 Cat6 & Cat6a Tooling Options: See Page 236
- Connector Modifications: See Page 252

---

**Notes**

- Generally to the requirements of MIL-DTL-38999
- Plating: See Pages 15 - 16
- Materials: See Page 15

**RJ45**

- Contacts Selective Gold Plating
- Shielding - Nickel Plated Brass
- Body - PBT, UL94V-0
- Seal - Silicone

**Performance**

- Voltage Rating: 50V DC / 35V AC
- Temperature: -40°C to +120°C

---

**Example Part Number** PC4D0018BT-19N-1-C-H

<table>
<thead>
<tr>
<th>PC4D0018</th>
<th>POLAMCO SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT</td>
<td>BT - Supplied with Band, 91 Supplied with Spring</td>
</tr>
<tr>
<td>19</td>
<td>Shell Size</td>
</tr>
<tr>
<td>N</td>
<td>Key Arrangement, Options N, A, B, C, D, E</td>
</tr>
<tr>
<td>1</td>
<td>Material (Aluminium Alloy) See Page 15</td>
</tr>
<tr>
<td>C</td>
<td>Plating: See Pages 15 - 16</td>
</tr>
<tr>
<td>H</td>
<td>High Integrity Grounding (Omit for Standard)</td>
</tr>
</tbody>
</table>

---

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RJ45 Cat6a Connectors
PC4D0023 - Field Plug Connector Assembly (No Tooling Required)

Connector Modifications: See Page 252

JLM 14/12/2010

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999
FINISH
SEE PAGES 15 - 16

MATERIALS
RJ45 PLUG
CONTACTS COPPER WITH SELECTIVE GOLD PLATING
HOUSING - ZINC DIECAST
SEAL - SILICONE

PERFORMANCE
TEMPERATURE -40°C TO +70°C

EXAMPLE PART NUMBER PC4D0023-19-10N-1-C
PC4D0023 = POLAMCO SERIES
19 = SHELL SIZE
10 = CABLE DIAMETER IN MM +/-0.5 OPTIONS 06, 08, 09 AND 10
N = KEY ARRANGEMENT, OPTIONS N, A, B, C, D, E
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16

PART NUMBER FOR UNGROUNDED VERSION: PC4D0023-19N-1-C-U

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

Interconnect Solutions Worldwide
### Crimp Tool
**Features**
- 1-step crimp tool crimps all contacts and fixes the square crimp in one action

**Part Number**
Y-ConTool-11

### Cable Stripping Tool
**Features**
- Cable stripping tool with adjustable blades

**Part Number**
Y-ConTool-20

### Cable-to-Plug Assembly Tool
**Features**
- Enables easy assembly when inserting the cable and insert into the plug

**Part Number**
Y-ConTool-30
2980070-01 & 2980075-01
Professional Handtool for the assembly of shielded Cat 6 plugs.
This is a real One-Step tool: contacts and shield is crimped at the same time.

<table>
<thead>
<tr>
<th>PLUG</th>
<th>PART NUMBER</th>
<th>OUTER CABLE Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-39200-010 / 011</td>
<td>2980075-01</td>
<td>MORE THAN 6MM</td>
</tr>
</tbody>
</table>
USB Connectors

D38999 Derived USB-A & USB-B Connector Assemblies for Harsh Environments

USB Box Mount
PC4B0026 Size 15 USB A
PC4B0035 Size 15 USB A
PC4B0015 Size 17 USB A
PC4B0006 Size 17 USB B

USB Jam Nut
PC4F0016 Size 15 USB A
PC4F0009 Size 17 USB A
PC4F0008 Size 17 USB B

USB Cabled Plug
PC4D0021 Size 15 USB A
PC4D0011 Size 17 USB A
PC4D0016 Size 17 USB B

USB Backshell & Cable Options
PC4B0020 Size 17 USB A (Strain Relief Cable Assembly)
PC4D0017 Size 17 USB B (Memory Metal Ring Adaptor)
PC4D0011C Over Moulded USB Cable

Performance
- USB High Speed (2.0) 480Mbit/sec
- D38999 shell size 15 USB A, shell size 17 USB A + USB B
- Sealed to IP68 for fluid and dust laden environments
- High levels of shock, vibration and mechanical impact protection
- Fully enclosed Aluminium, Marine Bronze and Stainless Steel shells for superior mechanical strength
- Positive cordset retention >100N axial force
- Optional external screen termination features on cable plug

The Polamco high speed USB connector system incorporates a MIL-DTL-38999 series III derived metal shell with full 360 degree EMC and mechanical protection and has been designed to meet the requirements of high speed data connections where reliability through environmental sealing and enhanced mechanical protection and EMC performance are required.
USB A Connectors
PC4B0026 - Feedthrough Receptacle Assembly (Size 15)
To Fit H Interface Adaptors

Connector Modifications: See Page 252

**NOTES**

- Generally to the requirements of MIL-DTL-38999

**MATERIALS**

- USB insert
- Contacts 30μ Au/Ni
- Shielding - Nickel plated brass
- Body - PA, UL94V-0
- PCB - FR4, UL94V-0

**PERFORMANCE**

- Current rating: 1 Amp max per contact
- Voltage rating: 30V AC
- Temperature: -25°C to +85°C

**EXAMPLE PART NUMBER: PC4B0026-15NZ-1-C**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC4B0026</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>15</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>Z</td>
<td>INSERT ROTATION (X = 0°, Y = 90°, Z = 270°)</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>

**SEAL** - Silicone Elastomer

**Insulator** - PPS GL40 UL94, Colour black

**Potting** - QSIL 550 UL94V-0
USB A Connectors
PC4B0035 - Solder Receptacle Assembly (Size 15)

Connector Modifications: See Page 252

**NOTES**
- GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

**MATERIALS**
- USB B INSERT
- CONTACTS 30µ Au/Ni
- SHIELDING - NICKEL PLATED BRASS
- BODY - PA, UL94V-0
- PCB - FR4, UL94V-0

**SEAL** - FLOOR SILICONE
**INSULATOR** - PPS GL40 UL94
**POTTING** - QSIL 550 UL94V-0

**PERFORMANCE**
- CURRENT RATING 1 AMP MAX PER CONTACT
- VOLTAGE RATING 30V AC
- TEMPERATURE -25°C TO +85°C

**EXAMPLE PART NUMBER:** PC4B0035-15NZ-1-C

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC4B0035</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>15</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>Z</td>
<td>INSERT ROTATION (X = 0°, Y = 90°, Z = 270°)</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>

**PART NUMBER FOR GROUNDED VERSION:** PC4B0035-15NZ-1-C-G

**OPTION X (STANDARD)**

**OPTION Y**

**OPTION Z**

**M22x1 - 6g**

**TO SUIT 'H' INTERFACE BACKSHELLS**

**CABLE SCREEN SOLDER TERMINATION**

**SOLDER TERMINATION**

**TERMINATION HOLE**

**screen braid**

**C3232**

**USB A CONNECTORS**

**connector modifications:** see page 252

**PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED**

**DRAWING NOT TO SCALE**

**DIMENSIONS IN MM**

**THIS DRAWING IS THE PROPERTY OF POLAMCO LTD AND MUST NOT BE USED FOR COMMERCIAL PURPOSES WITHOUT WRITTEN CONSENT OF THE COMPANY**
USB A Connectors
PC4F0016 - Feedthrough Jam Nut Receptacle Assembly (Size 15)
To Fit H Interface Adaptors

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
USB INSERT
CONTACTS 30μ Au/Ni
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4F0016-15NY-1-C

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z</td>
<td>Zinc cobalt, olive drab (5-10 microns) over electroless nickel (2.5 - 7.5 microns)</td>
</tr>
<tr>
<td>B</td>
<td>Cadmium, olive drab (5-10 microns) QQ-P-416, Type II, Class 3 over electroless nickel</td>
</tr>
<tr>
<td>C</td>
<td>Electroless Nickel, MIL-C-26074, Class 4, Grade B</td>
</tr>
<tr>
<td>J</td>
<td>Passivate, per QQ-P-35 or MI-S-5002</td>
</tr>
<tr>
<td>P</td>
<td>Heavy Nickel, 500 hour salt spray</td>
</tr>
<tr>
<td>Z</td>
<td>Shot blast for non-reflective finish</td>
</tr>
</tbody>
</table>

**EXAMPLE PART NUMBER: PC4F0016-15NY-1-C**

- **PC4F0016** = POLAMCO SERIES
- **15** = SHELL SIZE
- **N** = KEY ARRANGEMENT
- **Y** = INSERT ROTATION (X = 0°, Y = 90°, Z = 270°)
- **1** = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
- **C** = PLATING: SEE PAGES 15 - 16

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www.polamco.com
USB A Connectors
PC4D0021 - Cabled Plug Assembly (Size 15)

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF
MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4D0021-15NX-1-C-L2000-B

PC4D0021 = POLAMCO SERIES
15 = SHELL SIZE
N = KEY ARRANGEMENT
X = INSERT ROTATION (X = 0°, Y = 90°, Z = 270°)
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16
L2000 = PATCH LEAD LENGTH IN MM
(1, 2, 3 AND 5 METRE OPTIONS)
B = CABLE END OPTION A OR B

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED

Tel: +44 (0)845 017 1545

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USB A Connectors
PC4B0020 - Cabled Receptacle Assembly (Size 15)
To Fit H Interface Adaptors
Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

EXAMPLE PART NUMBER: PC4B0020-FHB-15NX-1-C-L3000

PC4B0020 = POLAMCO SERIES
FH = BACKSHELL SERIES
B = CABLE END OPTIONS
  A = USB A
  B = USB B
**OMIT FOR CABLE WITHOUT PLUG
15 = SHELL SIZE
N = KEY ARRANGEMENT (N, A, B, C, D, E)
X = INSERT ORIENTATION (X, Y, Z)
1 = SEE MATERIAL AND PLATING OPTIONS SHEET
C = SEE MATERIAL AND PLATING OPTIONS SHEET
L3000 = PATCH LEAD LENGTH IN MM, 1, 2, 3 & 5 METRE OPTIONS AS STANDARD, OTHER LENGTHS AVAILABLE ON REQUEST

NOTES
GENERAL TO THE REQUIREMENTS OF MIL-DTL-38999
FINISH
SEE MATERIAL AND PLATING OPTIONS SHEET
PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

MATERIALS
USB INSERT
CABLE DRAWING: SEE PAGE 251
CONTACTS 30µ Au/Ni
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0
SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PART NUMBER AND BATCH CODE WILL BE MARKED ON THE ASSEMBLY UNLESS OTHERWISE SPECIFIED
USB A Connectors
PC4D0011 - Cabled Plug Assembly (Size 17)

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4D0011-17N-1-C-L2000-B

| PC4D0011 | POLAMCO SERIES |
| 17 | SHELL SIZE |
| N | KEY ARRANGEMENT |
| 1 | MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15 |
| C | PLATING: SEE PAGES 15 - 16 |
| L2000 | PATCH LEAD LENGTH IN MM |
| B | CABLE END OPTION A OR B |

USB A Connectors
PC4D0011 - Cabled Plug Assembly (Size 17)

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4D0011-17N-1-C-L2000-B

| PC4D0011 | POLAMCO SERIES |
| 17 | SHELL SIZE |
| N | KEY ARRANGEMENT |
| 1 | MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15 |
| C | PLATING: SEE PAGES 15 - 16 |
| L2000 | PATCH LEAD LENGTH IN MM |
| B | CABLE END OPTION A OR B |

USB A Connectors
PC4D0011 - Cabled Plug Assembly (Size 17)

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4D0011-17N-1-C-L2000-B

| PC4D0011 | POLAMCO SERIES |
| 17 | SHELL SIZE |
| N | KEY ARRANGEMENT |
| 1 | MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15 |
| C | PLATING: SEE PAGES 15 - 16 |
| L2000 | PATCH LEAD LENGTH IN MM |
| B | CABLE END OPTION A OR B |
USB A Connectors
PC4B0015 - Feedthrough Receptacle (Size 17)
To Fit H Interface Adaptors

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
USB INSERT
CONTACTS 30µ Au/Ni
SHELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4B0015-17N-1-C

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC4B0015</td>
<td>POLAMCO SERIES</td>
</tr>
<tr>
<td>17</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
</tbody>
</table>
USB A Connectors
PC4F0009 - Feedthrough Jam Nut Receptacle (Size 17)
To Fit H Interface Adaptors

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
USB INSERT
CONTACTS 30\(\mu\) Au/Ni
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4F0009-17N-1-C
PC4F0009 = POLAMCO SERIES
17 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16
USB A Connectors
PC4B0020 - Cabled Receptacle Assembly (Size 17)

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF
MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

MATERIALS
USB INSERT
CONTACTS 30µ Au/Ni
SHELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

EXAMPLE PART NUMBER: PC4B0020-FHB-17N-1-C-L5000
PC4B0020 = POLAMCO SERIES
FH = BACKSHELL SERIES
B = CABLE END OPTIONS
A = USB A
B = USB B
* = OMIT FOR CABLE WITHOUT PLUG
17 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16
L5000 = PATCH LEAD LENGTH IN MM
(1, 2, 3 AND 5 METRE OPTIONS)
USB B Connectors
PC4B0006 - Feedthrough Receptacle (Size 17)
To Fit H Interface Adaptors

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
USB INSERT
CONTACTS 30µ Au/Ni
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4B0006-17N-1-C
PC4B0006 = POLAMCO SERIES
17 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16

Tel: +44 (0)845 017 1545
USB B Connectors
PC4F0008 - Feedthrough Jam Nut Receptacle (Size 17)
To Fit H Interface Adaptors

Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999

MATERIALS
USB INSERT
CONTACTS 30µ Au/Ni
SHIELDING - NICKEL PLATED BRASS
BODY - PA, UL94V-0
PCB - FR4, UL94V-0

SEAL - SILICONE ELASTOMER
INSULATOR - PPS GL40 UL94, COLOUR BLACK
POTTING - QSIL 550 UL94V-0

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4F0008-17N-1-C
PC4F0008 = POLAMCO SERIES
17 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16
USB B Connectors
PC4D0016 - Cabled Plug (Size 17)

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF
MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

EXAMPLE PART NUMBER: PC4D0016-17N-1-C-L2000-B

<table>
<thead>
<tr>
<th>PC4D0016</th>
<th>POLAMCO SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>SHELL SIZE</td>
</tr>
<tr>
<td>N</td>
<td>KEY ARRANGEMENT</td>
</tr>
<tr>
<td>1</td>
<td>MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15</td>
</tr>
<tr>
<td>C</td>
<td>PLATING: SEE PAGES 15 - 16</td>
</tr>
<tr>
<td>L2000</td>
<td>PATCH LEAD LENGTH IN MM</td>
</tr>
<tr>
<td></td>
<td>(1, 2, 3 AND 5 METRE OPTIONS)</td>
</tr>
<tr>
<td>B</td>
<td>CABLE END OPTION A OR B</td>
</tr>
</tbody>
</table>
USB B Connectors
PC4D0017 - Plug (Size 17)
with Screen Termination for Double Screened Applications

Over Moulded USB Cable: See Page 251
Connector Modifications: See Page 252

NOTES
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999
CABLE DRAWING: SEE PAGE 251

PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

ELECTRICAL PERFORMANCE
CURRENT RATING 1 AMP MAX PER CONTACT
VOLTAGE RATING 30V AC
TEMPERATURE -25°C TO +85°C

CABLE LAYOUT
1. RED: VBUS
2. WHITE: D-
3. GREEN: D +
4. BLACK: GROUND

EXAMPLE PART NUMBER: PC4D0017-60A-17N-1-C-L5000

PC4D0017 = POLAMCO SERIES
60 = BACKSHELL SERIES
A = A = USB A
B = USB B
17 = SHELL SIZE
N = KEY ARRANGEMENT
1 = MATERIAL (ALUMINIUM ALLOY) SEE PAGE 15
C = PLATING: SEE PAGES 15 - 16
L5000 = PATCH LEAD LENGTH IN MM
(1, 2, 3 AND 5 METRE OPTIONS)
**Over Moulded USB Cable**

**PC4D0011C**

**CABLE SPECIFICATION**
- **JACKET:** PUR
- **MIN BEND RAD:** REPEATED 7xØ, SINGLE 5xØ
- **OPERATING TEMP:** -25°C TO +85°C
- **COLOUR:** GREY RAL 7021
- **OPERATING VOLTAGE (PEAK):** < 100 V

**CONDUCTOR RESISTANCE:** < 210 Ohm/Km

**INSULATION RESISTANCE:** > 20 MOhm*Km

**TEST VOLTAGE:** 1000V / 50Hz FOR 1 MIN

**FLAME RESISTANCE:** UL-STYLE 20963 B

**CABLE DIAMETER:** 4.2MM ±0.2

**EXAMPLE PART NUMBER:** PC4D0011C-A-B-L2000

- **PC4D0011C** = POLAMCO SERIES
- **A** = A = USB A
- **B** = B = USB B
- **L2000** = PATCH LEAD LENGTH IN MM
  - (1, 2, 3 AND 5 METRE OPTIONS)

**DRAWING NOT TO SCALE**

**DIMENSIONS IN MM**

**EXAMPLE PART NUMBER:** PC4D0011C-A-B-L2000

- **PC4D0011C** = POLAMCO SERIES
- **A** = A = USB A
- **B** = B = USB B
- **L2000** = PATCH LEAD LENGTH IN MM
  - (1, 2, 3 AND 5 METRE OPTIONS)

**POLAMCO LTD**

**DRAWING NO**

**ASSY USED ON**

**PART NO**

**WESTON LOCK**

**LOWER BRISTOL ROAD**

**BATH BA2 1EP**

**TITLE**

**22/09/2010**

**C4075**

**OVERMOULDED USB CABLE**

**2 PC4D0011C-*-*L****MP3994**

**L**** OPTIONAL LENGTH IN MM**

**CABLE SPECIFICATION**
- **JACKET:** PUR
- **MIN BEND RAD:** REPEATED 7xØ, SINGLE 5xØ
- **OPERATING TEMP:** -25°C TO +85°C
- **COLOUR:** GREY RAL 7021
- **OPERATING VOLTAGE (PEAK):** ≤ 100 V

**CONDUCTOR RESISTANCE:** ≤ 210 Ohm/Km

**INSULATION RESISTANCE:** ≥ 20 MOhm*Km

**TEST VOLTAGE:** 1000V / 50Hz FOR 1 MIN

**FLAME RESISTANCE:** UL-STYLE 20963 B

**CABLE DIAMETER:** 4.2MM ±0.2

- **SHIELD BRAIDING OF TINNED COPPER WIRES**
- **ALULAMINATE FOIL OVERLAPPED**
  - **4 STRANDED TINNED COPPER WIRES 7 x 0.13 Ø0.39MM (AWG 28)**
- **INSULATION OUTER Ø1.00 WALL THICKNESS 0.3MM APPROX**
- **PAIR L12Y 2 x 0.09/1.0 VZN**
- **INSULATION OF POLYETHYLENE (PE)**
- **WIRE LIY 0.09/1.0 VZN**
- **INSULATION POLYVINYLCHLORIDE (PVC)**
- **JACKET**
  - **OUTER - Ø4.2 ±0.2MM WALL THICKNESS 0.6MM APPROX**
  - **POLYURETHANE (PUR) GY RAL7021**