

REVISION AN - ECN-23-192164

REFERENCE INFORMATION FOR STANDARD MATERIAL AND FINISHES FOR BACKSHELLS & BACKSHELL ACCESSORIES

BACKSHELL MATERIALS

| POLAMCO MATERIAL CODE (BT, 60, 70) | RAYCHEM MATERIAL LETTER CODE (TXR) | DESCRIPTION | RoHS Compliant | REACH Compliant |
|------------------------------------|------------------------------------|---|--|-----------------|
| 1 | A | ALUMINIUM ALLOY TO: 6061-T6 PER SAE AMS-QQ-A-200/8, & 6082-T6 <i>(MIXED BATCHES OF MATERIAL GRADES ARE POSSIBLE UNTIL SEPTEMBER 2023)</i> | ✓ | ✓ |
| | | ALUMINIUM ALLOY TO: 6064-T9 (6262R) AND 6042-T5, 6064-T6, 6026-T6 <i>(MIXED BATCHES OF MATERIAL GRADES ARE POSSIBLE UNTIL SEPTEMBER 2023)</i> | CONTAINS LEAD (Pb) COMPLIANT WITH EXEMPTION 6(b)-II | |
| 2 | B | NICKEL ALUMINIUM BRONZE TO: NES 833 OR BS2874 CA104 OR ASTM C 63200 OR ASTM B 150 | ✓ | ✓ |
| 3 | D | BRASS TO: BS2874 CZ121, ASTM B16/16M, ASTM B36, ASTM B141, OR ASTM B212 | CONTAINS LEAD (Pb) COMPLIANT WITH EXEMPTION 6(c) | |
| 4 | S | STAINLESS STEEL TO: BS970 302S25, 303S31, 316S11, 316S31 OR SAE AMS-QQ-S-763 302, 303, 304, 304L OR 316 (MACHINING) BS1449 304S15 OR AISI 301 OR 304 (SHEET) BS1449 321S31 OR EQUIVALENT ROLLS-ROYCE SPEC. OR MIL-T-8606 347 (TUBE) | ✓ | ✓ |
| 46 | | STAINLESS STEEL: EN 10088-3 1.4401 (alt. des. 316S31); EN 10088-3 1.4404 (alt. des. 316L) | ✓ | ✓ |
| 74 | | POLYETHERIMIDE (ULTEM) FLUID RESISTANCE TO EIA-364-10F-2014 | ✓ | ✓ |

COMMON COMPONENT MATERIALS

| COMPONENT | MATERIAL |
|---------------------|---|
| O-RINGS | SILICONE |
| | FLUROSILICONE |
| | FPM (FLUOROCARBON) |
| | NITRILE |
| SCREWS & WASHERS | STAINLESS STEEL <i>(UNLESS OTHERWISE STATED)</i> |
| LANYARD ATTACHMENTS | STAINLESS STEEL <i>(UNLESS OTHERWISE STATED)</i> |


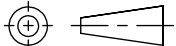
THE STANDARD MATERIALS STATED ABOVE ARE USED FOR THE MAJORITY OF TE CONNECTIVITY BACKSHELLS & BACKSHELL ACCESSORY PRODUCT LINES. HOWEVER, THEY ARE NOT LIMITED TO THESE ITEMS LISTED, PLEASE CONTACT TE CONNECTIVITY WITH YOUR SPECIFIC APPLICATION FOR RECOMMENDED ALTERNATIVES.

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|---|-------------------|------------|--|---------------|
| DIMENSIONS: MILLIMETERS | DWN: K.K-W | 09/02/2018 | MATERIAL: N/A | FINISH: N/A |
| | CHK: R.STYLES | 18/06/2020 |  TE Connectivity | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | APVD: M.PAUL | 14/02/2018 | | |
| GENERAL TOL LINEAR ±0.25MM ANGULAR ±1° | PRODUCT SPEC: | - | NAME: | |
| | APPLICATION SPEC: | - | MATERIAL AND FINISH DETAILS | |
|  | WEIGHT: | A4 | CAGE CODE | U5792 |
| | DATA SHEET | SCALE | 1:1 | SHEET 1 OF 2 |
| | | | DRAWING NO | RESTRICTED TO |
| | | | ©-SS0076 | REV AN |

MATERIAL & FINISH OPTIONS

SS0076

THIS DRAWING IS A CONTROLLED DOCUMENT DWG NO

| POLAMCO FINISH CODE (BT, 60, 70) | RAYCHEM FINISH CODE (TXR) | MATERIAL | FINISH | SPECIFICATION / DESCRIPTION | COLOUR (SEE NOTES) | SALT SPRAY PERFORMANCE | ELECTRICAL CONDUCTIVITY | OPERATING TEMP. RANGE | RoHS Compliant | REACH Compliant |
|----------------------------------|---------------------------|-------------------------|---|--|--------------------|------------------------|-------------------------|-----------------------|----------------|-----------------|
| 1-B | AB | ALUMINIUM | CADMIUM | QQ-P-416, TYPE II, CLASS 3 OVER ELECTROLESS NICKEL | OLIVE DRAB | 500 HRS | CONDUCTIVE | -65 TO +175 °C | ✗ | ✗ |
| 1-KB | - | ALUMINIUM | CADMIUM | QQ-P-416, TYPE II, CLASS 3, OVER ELECTROLESS NICKEL [QUALIFIED TO 85049] | OLIVE DRAB | 1000 HRS | CONDUCTIVE | -65 TO +175 °C | ✗ | ✗ |
| 1-C | AC | ALUMINIUM | ELECTROLESS NICKEL | AMS-C-26074, CLASS 4, GRADE B | BRIGHT | 48 HRS | CONDUCTIVE | -65 TO +200 °C | ✓ | ✓ |
| 4-C | SC | STAINLESS STEEL | | | | | | | | |
| 1-CHP | - | ALUMINIUM | HIGH PHOSPHORUS ELECTROLESS NICKEL | HIGH PHOSPHORUS ELECTROLESS NICKEL (FOR SPACE APPLICATION) - RECTANGULAR BACKSHELLS ONLY | BRIGHT | 48 HRS | CONDUCTIVE | -65 TO +200 °C | ✓ | ✓ |
| 1-D | AG | ALUMINIUM | ANODISE HARD | MIL-A-8625, TYPE III, CLASS 2 (NOT SUITABLE FOR SCREEN TERMINATION) | BLACK | 500 HRS | NON-CONDUCTIVE | -65 TO +175 °C | ✓ | ✓ |
| 1-G | AK | ALUMINIUM | ANODISE, SULPHURIC | MIL-A-8625, TYPE II, CLASS 2 (NOT SUITABLE FOR SCREEN TERMINATION) | BLACK | 500 HRS | NON-CONDUCTIVE | -65 TO +175 °C | ✓ | ✓ |
| 4-J | SJ | STAINLESS STEEL | PASSIVATE | QQ-P-35 OR MI-S-5002 | DULL | 500 HRS | CONDUCTIVE | -65 TO +200 °C | ✓ | ✓ |
| 46-J | - | STAINLESS STEEL (316) | | | | 1000 HRS | | | | |
| 1-KC | AD | ALUMINIUM | HIGH PHOSPHORUS ELECTROLESS NICKEL | AMS-C-26074 OR AMS2404 [QUALIFIED TO 85049] | BRIGHT | 96 HRS | CONDUCTIVE | -65 TO +200 °C | ✓ | ✓ |
| 1-KZQ | - | ALUMINIUM | ZINC NICKEL PASSIVATE OVER ELECTROLESS NICKEL | DEUTSCH SPECIFICATION: HDS 05-16182 [QUALIFIED TO 85049] | BLACK | 1000 HRS | CONDUCTIVE | -65 TO +175 °C | ✓ | ✓ |
| 1-TN | AX | ALUMINIUM | NICKEL PTFE | AS PER DPS-4-336: PTFE OVER HIGH PHOSPHORUS ELECTROLESS NICKEL OVER SULFAMATE NICKEL. | GREY | 500 HRS | - | - | ✓ | ✓ |
| 4-TN | SX | STAINLESS STEEL | | | | | | | | |
| 2-U | B/ | NICKEL ALUMINIUM BRONZE | AS MACHINED | NO PLATING | BRIGHT | NOT TESTED | CONDUCTIVE | - | ✓ | ✓ |
| 1-Y | - | ALUMINIUM | CADMIUM | YELLOW CHROMATE OVER CADMIUM QQ-P-416, TYPE II, CLASS 2 | YELLOW CAD | NOT TESTED | CONDUCTIVE | - | ✗ | ✗ |
| 1-Y7 | - | ALUMINIUM | ELECTROPLATED GOLD | MIL-G-45204 TYPE II, GRAD C, CLASS 0 OVER COPPER IN ACCORDANCE WITH MIL-C-14550 | GOLD | NOT TESTED | CONDUCTIVE | - | ✓ | ✓ |
| 2-Z | BW | NICKEL ALUMINIUM BRONZE | UNPLATED | SHOT BLAST FOR NON-REFLECTIVE FINISH | DULL | 1000 HRS | CONDUCTIVE | -65 TO +200 °C | ✓ | ✓ |
| 1-ZB | AU | ALUMINIUM | ZINC COBALT | OVER ELECTROLESS NICKEL WITH OLIVE DRAB CHROMATE CONVERSION | OLIVE DRAB | 500 HRS | CONDUCTIVE | -65 TO +175 °C | ✓ | ✓ |
| 1-ZK | A6 | ALUMINIUM | ZINC COBALT | OVER ELECTROLESS NICKEL WITH BLACK CHROMATE CONVERSION | BLACK | 350 HRS | CONDUCTIVE | -65 TO +175 °C | ✓ | ✓ |
| 1-ZN | AZ | ALUMINIUM | ZINC NICKEL PASSIVATE OVER ELECTROLESS NICKEL | ASTM B 841 CLASS 1 | BLACK | 500 HRS | CONDUCTIVE | -65 TO +175 °C | ✓ | ✓ |

FOR ALTERNATIVE MATERIAL / FINISH COMBINATIONS, PLEASE CONTACT TE CONNECTIVITY, BACKSHELL ENGINEERING TEAM.

FINISH NOTES: -
 THE COLOUR INDICATED ARE FOR APPROXIMATE COLOUR APPEARANCE FOR REFERENCE ONLY, VARIATIONS OF COLOURS ARE A PART OF THE NORMAL PLATING PROCESS, COLOUR VARIATIONS, BATCH TO BATCH, PART TO PART, COMPONENT TO COMPONENT WITHIN A PART, SHALL NOT BE A CAUSE FOR REJECTION.

FOR EXAMPLE ZINC NICKEL PLATING CAN VARY FROM GREENISH BLACK TO BLACK or CADMIUM PLATING CAN VARY FROM TANISHGREEN TO DARK GREEN; ETC.

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|---|--|
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0,40 1 PLC ±0,20 2 PLC ±0,10 ANGLES ±1° ALL FILLETS 0,4 MAX |
| | |
| ALL DIAMETERS | |
| SURFACE FINISH Ra1,6 MAX REMOVE ALL BURRS AND SHARP EDGES TO 0,1 MAX | |

| | | | |
|-------------------------------------|------------|-------------------|-------------------|
| DWN K.K-W | 09/02/2018 | MATERIAL N/A | HEAT TREAT N/A |
| CHK R.STYLES | 18/06/2020 | TE Connectivity | |
| APVD M.PAUL | 14/02/2018 | | |
| NAME MATERIAL AND FINISH DETAILS | | | |
| SCALE 1:1 | SIZE A3 | PART NO SS0076 | SHEET 2 OF 2 |
| | | | REV AN |

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