

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.

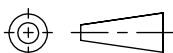
RELEASED FOR PUBLICATION

ALL RIGHTS RESERVED.

THIS DRAWING IS UNPUBLISHED.

© COPYRIGHT 20 BY

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:  GENERAL TOL LINEAR ±0.25MM ANGULAR ±1°	APVD: M.PAUL	14/02/2018			PART NUMBER: SS0076
	PRODUCT SPEC:	-	NAME: MATERIAL AND FINISH DETAILS		
APPLICATION SPEC:	-	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
WEIGHT:	-	A4	U5792	©-SS0076	
DATA SHEET		SCALE	1:1	SHEET	1 OF 2
				REV	AN



### MATERIAL & FINISH OPTIONS

SS0076 DWG NO

THIS DRAWING IS A CONTROLLED DOCUMENT

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.

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	09/02/2018	MATERIAL	N/A	HEAT TREAT	N/A
CHK	18/06/2020	TE Connectivity			
APVD	14/02/2018				
NAME	M.PAUL				
<b>MATERIAL AND FINISH DETAILS</b>					
SCALE	1:1	SIZE	A3	PART NO	SS0076
				SHEET	2 OF 2
				REV	AN

THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO TYCO ELECTRONICS CORPORATION AND ITS WORLDWIDE SUBSIDIARIES AND AFFILIATES (IE). IT MAY NOT BE DISCLOSED TO ANYONE, OTHER THAN TE PERSONNEL, WITHOUT AUTHORIZATION FROM TE (www.TE.com).