

MATERIAL AND FINISH CODE SPECIFICATION

FOR

METAL PARTS

APPROVAL DETAILS FOR THIS DOCUMENT ARE MAINTAINED
ELECTRONICALLY WITHIN ATS' PLM ENVIRONMENT

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REV	ECO/EAR	DESCRIPTION OF CHANGE	ORIGINATOR
CB	ECO-2021-01992	ADDED -V8 finish.	B. WITMAN
CC	ECO-2022-03149	ADDED -V9 & -V10 finish. Updated approved powder coatings for almond, gray, white, and sea foam green finishes which were not included in updates to previous revisions. Finishes include -P1, -R2, -U2, -V1, -V2, -W2, -W3, -W4, -W5, and -W6 . Deleted obsolete finishes from -C5 and -R5 . Updated legal statement.	B. WITMAN
CD	ECO-2023-03617	ADDED note 8 and call-outs to finishes; UPDATED part numbering scheme note at end of table; ADDED Interpon 600 O616396S1JK TGIC Polyester Powder Coat to finishes -C2, -J2, -R2, -V6, -V10, -W2, -W3, and -W4 ; ADDED Interpon 600 O62770S0JA TGIC Polyester Powder Coat to finishes -C3, -J4, -R3, -V2, -V9, -W10 ADDED XXX-XXX- C15 (-XXX), Aluminum, Painted Textured Dark Gray, Donguan Little Sparrow Plastic Technology Co., Ltd. BH7203; ADDED XXX-XXX- T11 (-XXX), Steel, Painted Textured Dark Gray, Donguan Little Sparrow Plastic Technology Co., Ltd. BH7203; ADDED XXX-XXX- N18 (-XXX), EG Steel, Painted Textured Dark Gray, Donguan Little Sparrow Plastic Technology Co., Ltd. BH7203	B. WITMAN
32	CN03696	ADDED Dongguan Shi Li Hui Industrial Co., Ltd. H5312194 Outdoor Sand Texture Gray to -C15, -N18 & -T11 ; correct typo in same codes Little Sparrow from Donguan to Dongguan	J. HIGHET

ATTENTION METAL FINISHERS

The following notes must be complied with on painted and/or plated parts, unless otherwise specified:

1. FINISH: POWDER COAT PER ALPHA SPECIFICATION #070-022-00 AND ALPHA WORKMANSHIP STANDARDS 071-522-00, DESIGN THICKNESS 0.0015 - 0.0040".
2. FINISH: PLATED PER ALPHA SPECIFICATION #070-022-00 AND ALPHA WORKMANSHIP STANDARDS 071-520-00, DESIGN THICKNESS 0.0002 - 0.0003".
3. ALL THREADED AND MATING SURFACES OF HARDWARE MUST BE FREE OF PAINT.
4. FOR "MARKING ACCEPTANCE REQUIREMENTS" SEE ALPHA WORKMANSHIP STANDARDS 071-523-00 (AAII USE ONLY).
5. STEEL PARTS HAVING STAINLESS STEEL CAPTIVE HARDWARE (PEM, etc.) MUST BE TREATED WITH A SULFURIC ACID ACTIVATOR OR "NICKLE-STRIKE" PROCESS PRIOR TO PLATING.
6. FINISH: STATIC CHARGED SPRAY PAINT PER ALPHA SPECIFICATION #070-022-00, DESIGN THICKNESS 0.001 - 0.0035".
7. **ALL FINISHES MUST BE RoHS COMPLIANT. IF A PARTICULAR FINISH SPECIFICATION DOES NOT MEET RoHS, PLEASE NOTIFY ALPHA IMMEDIATELY.**
8. **ALL NEW FINISHES MUST BE VERIFIED TO BE POLYFLUOROALKYL SUBSTANCE (PFAS) FREE BEFORE BEING ACCEPTED AS AN APPROVED FINISH. ALL VERIFIED PFAS FREE FINISHES SHALL BE MARKED AS SUCH WITHIN THIS DOCUMENT. ALL FINISHES SHOWN TO CONTAIN PFAS MUST BE REPLACED BY A PFAS FREE ALTERNATE, OR DISCONTINUED BY 01/01/2030. FINISHES WHICH ARE UNDETERMINED MUST BE EITHER VERIFIED TO BE PFAS FREE, REPLACED WITH AN ALTERNATE PFAS FREE FINISH, OR DISCONTINUED BY 01/01/2030.**

¹Indicates finish is PFAS free

²Indicates finish needs to be evaluated for PFAS

³Indicates finish contains PFAS

ATTENTION SILKSCREENERS

The following notes must be complied with on silkscreened parts, unless otherwise specified:

1. SILKSCREEN PER ALPHA WORKMANSHIP STANDARDS 071-523-00 AND ASTM D3359.
2. **ALL MATERIALS MUST BE RoHS COMPLIANT.**

The following is a table of silkscreen paint combinations:

TYPE	QTY	DESCRIPTION
Type 1	100 Parts 7 Parts	MacDermid/Enthone, Cat-L-Ink, 50-700R, Black MacDermid/Enthone, M Series, 20 / A or 77, Catalyst
Type 2	100 Parts 6 Parts	MacDermid/Enthone, Cat-L-Ink, 50-100R, White MacDermid/Enthone, M Series, 20 / A or 77, Catalyst
Type 3	70 Parts 5 Parts 4 Parts	MacDermid/Enthone, Cat-L-Ink, 50-100R, White MacDermid/Enthone, Cat-L-Ink, 50-700R, Black MacDermid/Enthone, M Series, 20 / A or 77, Catalyst
Type 4	100 Parts 6.5 Parts	MacDermid/Enthone, Cat-L-Ink, 50-400R, Ultra Marine Blue MacDermid/Enthone, M Series, 20 / A or 77, Catalyst

Type 5	100 Parts 25 Parts	Naz-Dar / KC, ER-114, Brown Naz-Dar / KC, ER Series, ER-176, Catalyst
Type 6	100 Parts 6.5 Parts	MacDermid/Enthone , Cat-L-Ink, 50-508R, Medium Red (Chromium) MacDermid/Enthone, M Series, 20 / A or 77, Catalyst For reference only: Ink color to be equivalent to Pantone 1795
Type 7	100 Parts 4 Parts	MacDermid/Enthone, Cat-L-Ink, 50-PMS 354C Green MacDermid/Enthone, M Series, 45, Catalyst

MATERIAL AND FINISH CODES

PART NUMBER	MATERIAL AND FINISH	FINISH SPECIFICATION
xxx-xxx-A1 (-xxx)	Aluminum, bare (no finish)	
xxx-xxx-A2 (-xxx)	Deleted	
xxx-xxx-A3 (-xxx)	Aluminum, clear anodize	
xxx-xxx-A4 (-xxx)	Aluminum, black anodize	
xxx-xxx-A5 (-xxx)	Aluminum, clear conversion (a.k.a. clear alodine or clear irridite)	Conversion coating per MIL-DTL-5541F, Class 3 Must be RoHS-compliant
xxx-xxx-A6 (-xxx)	Aluminum, Bare, Smooth, with One-Sided, Heat-Laminated, Strippable Vinyl Moisture Barrier	
xxx-xxx-A7 (-xxx)	Aluminum, Bright Tin Plated	Bright Tin Plating per ASTM B545 over Copper Flash Must be RoHS-compliant
xxx-xxx-B1 (-xxx)	Aluminum, painted ASA-61 semi-gloss gray	¹ Cardinal T008-GR736 Gray Powder Coat (UL Recognized) ² Guangzhou P-GY9452-S5 Gray Powder Coat
xxx-xxx-B2 (-xxx)	Aluminum, painted gray leatherette	² Protech HT212A4 (was H1000AT4) Textured Gray Hybrid Powder Coat (UL Recognized)
xxx-xxx-B3 (-xxx)	Aluminum, painted semi-gloss black	² Protech DS311N12 (was PS311N1) Semi Gloss Black TGIC Polyester Powder Coat (UL Recognized) (for Burnaby) ² Morton Thiokol 20-7037 Ebony Black Powder Coat (for Bellingham)
xxx-xxx-B4 (-xxx)	Aluminum, painted light tan (for Albar/C-Cor)	² Glidden Pulvalure 6DI06 Lite Tan TGIC Polyester Powder Coat (UL Recognized)
xxx-xxx-B5 (-xxx)	Aluminum, painted clear coat	² Tiger Drylac 39/00020 TGIC Polyester
xxx-xxx-B6 (-xxx)	Aluminum, painted midnight blue	² Protech PS211B2 (was P100B2) Midnight Blue TGIC Polyester Powder Coat (UL Recognized)
xxx-xxx-B7 (-xxx)	Aluminum, painted platinum (for Compower)	² Protech HS412H36 (was H1000H36) Platinum Hybrid Powder Coat (UL Recognized)
xxx-xxx-B8 (-xxx)	Aluminum, painted "Teledyne" blue (for Teledyne)	² Textured Polane, Pantone #281C Blue
xxx-xxx-B9 (-xxx)	Reserved	
xxx-xxx-B10 (-xxx)	Aluminum, painted gloss black	¹ Cardinal T009-Bk12 #17038 Black TGIC Polyester Powder Coat (for Burnaby)
xxx-xxx-B11 (-xxx)	Aluminum, Painted Midnight Blue	¹ Cardinal X002-BLW01541 RAL 5011 20% Gloss Powder Coat

xxx-xxx-B12 (-xxx)	Aluminum, Painted Desert Sand	² Tiger Drylac 16/15013 Desert Sand MIL580 Smooth Matte Powder Coat
xxx-xxx-B13 (-xxx)	Deleted	
xxx-xxx-B14 (-xxx)	Aluminum, painted textured, semi-gloss, Alpha Blue.	³ Cardinal C241-BL628, LS# 16989 Dark Blue, Textured, Semi-Gloss, Polyester Powder Coat ² Dupont (Dongguan Dupont Huajia Performance Coatings Limited Company, China) ² Alesta AE7150431-S Midnight Blue/RAL 5011, Semi Gloss, TGIC free Polyester Powder Coat ¹ Huacai JJ301C, Textured Blue Powder Coat
xxx-xxx-C1 (-xxx)	Reserved	
xxx-xxx-C2 (-xxx)	Aluminum, painted sea foam green	¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat
xxx-xxx-C3 (-xxx)	Aluminum, painted white	¹ Cardinal T009-WH11 Horizon White Powder Coat ² Interpon 600 O62770S0JA TGIC Polyester Powder Coat
xxx-xxx-C4 (-xxx)	Aluminum, painted flat black	² Morton Thiokol 80-7001 Corvel Solar Black TGIC Polyester Powder Coat ¹ Cardinal #E300-BK147 Flat Black Epoxy Huacai EN275CA Black Powder Coat
xxx-xxx-C5 (-xxx)	Aluminum, painted textured gray	² Protech PC 4732 Blue-Gray Textured Hybrid (Epoxy/Polyester) Powder Coat
xxx-xxx-C6 (-xxx)	Aluminum, painted anti-graffiti general tan	² Tiger Drylac Series 544/15010 Anti-Graffiti General Tan TGIC Polyester
xxx-xxx-C7 (-xxx)	Aluminum, painted "CFR gray"	² Sherwin-Williams H-2415-2T Pro Grey Texture Hybrid Powder Coat ² Tiger Drylac 209/72250 Textured Light Gray Epoxy Polyester Hybrid Powder Coat
xxx-xxx-C8 (-xxx)	Aluminum, painted designer beige	² Valspar IF-2407 Designer Beige Urethane Powder Coat
xxx-xxx-C9 (-xxx)	Aluminum, painted charcoal gray (for MPR)	² Tiger Drylac Series 209-71390 (ATM Gray) Fine Textured Gray Polyester Powder Coat

xxx-xxx-C10 (-xxx)	Aluminum, painted surf green	² TCI Powder Coatings # 9610-6042, Medium Gloss Green Polyester (TGIC)
xxx-xxx-C11 (-xxx)	Aluminum, painted bronze green	² Polyester/TGIC Powder Coating Tiger Drylac 249/55020
xxx-xxx-C12 (-xxx)	Aluminum, painted textured black	³ Cardinal T241-BK59 polyester GIC powder coat ² Huacai EN372C, Textured Black Powder Coat
xxx-xxx-C13 (-xxx)	Aluminum, painted textured gray	² Interpon 600 JL41SZ Polyester Powder coat
xxx-xxx-C15 (-xxx)	Aluminum, painted textured, dark gray	³ Dongguan Little Sparrow Plastic Technology Co., Ltd. BH7203, Textured, Polyester Powder Coat ² Dongguan Shi Li Hui Industrial Co., Ltd. H5312194 Outdoor Sand Texture Gray
SECTION D FOR ALUMINUM WITH RoHS COMPLIANT PLATINGS/COATINGS		
xxx-xxx-D1 (-xxx)	Deleted	
xxx-xxx-D2 (-xxx)	Aluminum, plus clear conversion, RoHS compliant	Conversion coating per MIL-DTL-5541F, Class 3, RoHS compliant
xxx-xxx-E1 (-xxx)	Aluminum, painted semi-gloss green	² Tiger Drylac Series 49 Semi-Gloss RAL 6021
xxx-xxx-E2 (-xxx)	Aluminum, painted safety red	² DOW Plastics ENVELON Series Safety Red (SR) Powder Coat
xxx-xxx-E3 (-xxx)	Aluminum, painted anti-graffiti Pine green	² Tiger Drylac Series 544/50040 RAL 6028 Anti-Graffiti Pine Green TGIC Polyester
xxx-xxx-E4 (-xxx)	Aluminum, painted Hammertone gray	² Protech HV 212 A9 Hammertone Gray Hybrid Powder Coat
xxx-xxx-E5 (-xxx)	Aluminum, painted silver gray	² Protech HM 212 AS4 Silver Gray Hybrid Powder Coat
xxx-xxx-E6 (-xxx)	Aluminum, painted anti-graffiti Almond	² Tiger Drylac Series 544/15020 Anti-Graffiti Almond TGIC Polyester
xxx-xxx-E7 (-xxx)	Aluminum, painted anti-graffiti sea foam green	² Tiger Drylac Series 544/50050 Anti-Graffiti Sea Foam Green TGIC Polyester
xxx-xxx-E8 (-xxx)	Aluminum, painted anti-graffiti ASA-61 semi-gloss gray	² Tiger Drylac Series 544/70020 Anti-Graffiti ASA-61 Gray TGIC Polyester
xxx-xxx-E9 (-xxx)	Aluminum, painted forest green	² Tiger Drylac Series 249/52690 Pantone 357C Green TGIC Polyester Powder Coat
xxx-xxx-E10 (-xxx)	Aluminum, painted "Solaris" Beige	² Tiger Drylac Series 49/70520 (RAL9002) TGIC Polyester Powder Coat
xxx-xxx-E11 (-xxx)	Aluminum, painted Light Silver	² Tiger Drylac Series 38/91020 Anodized Silver TGIC Polyester Powder Coat

xxx-xxx-F1 (-xxx)	Aluminum, painted pastel green	² Tiger Drylac Series 249/52860 Smooth Green TGIC Polyester Powder Coat
xxx-xxx-F2 (-xxx)	Aluminum, painted almond	² DuPont Alestra Almond PFT500S8, TGIC Polyester Powder Coat ² Tiger Drylac Series 39/15020 Semi-Gloss Powder Coat ¹ Cardinal T009-BG01 Polyester TGIC Powder Coating, Full Gloss Smooth, Almond
xxx-xxx-F3 (-xxx)	Aluminum, painted hybrid gray	² Tiger Drylac 459/70150 (was 449/71140) ¹ Cardinal GR1465-C004
xxx-xxx-F4 (-xxx)	Aluminum, painted dark green	¹ Cardinal C006-GN03 Green TGIC Free Polyester Powder Coat Semi Gloss Smooth Green
xxx-xxx-F5 (-xxx)	Aluminum, painted "Generac" Beige	² Powder Technology, Inc. #PT-TS95-TS35 Compartment Tan 2SD TGIC
xxx-xxx-F6 (-xxx)	Aluminum, Fir Green	² Tiger Drylac Fir Green 49/52840 (RAL 6009)
xxx-xxx-F7 (-xxx)	Aluminum, Painted Pine Green	² Tiger Drylac Pine Green 49/52650 (RAL 6028)
xxx-xxx-F8 (-xxx)	Aluminum, Painted Thermal Plastic Almond.	² Plascoat PPA 571 ES, Almond (212)
xxx-xxx-F9 (-xxx)	Aluminum, Painted Quartz Gray	³ Cardinal Industrial Grey Quartz (T243GR301) TGIC Polyester
xxx-xxx-F10 (-xxx)	Aluminum, painted Central Office White	² Dupont Powder Coatings Central Office White UFW-563-S3, Urethane Powder Coat
xxx-xxx-G1 (-xxx)	Stainless Steel, bare (no finish)	
xxx-xxx-G2 (-xxx)	Stainless Steel, bare, passivated	
xxx-xxx-H1 (-xxx)	Stainless Steel, painted ASA-61 semi-gloss gray	¹ Cardinal T008-GR736 Gray Powder Coat (UL Recognized) ² Guangzhou P-GY9452-S5 Gray Powder Coat
xxx-xxx-H2 (-xxx)	Stainless Steel, painted hybrid gray	² Protech #HS312 A355 Hybrid Gray Powder Coat
xxx-xxx-H3 (-xxx)	Stainless Steel, Painted Thermal plastic black	² Plascoat PPA 571 ES, Black (RAL 9005)
xxx-xxx-H4 (-xxx)	Stainless Steel, Painted Light Silver	² Tiger Drylac Series 38/91020 Anodized Silver TGIC Polyester Powder Coat
xxx-xxx-H5 (-xxx)	Stainless Steel, Painted Midnight Blue	¹ Cardinal X002-BLW01541 RAL 5011 20% Gloss Powder Coat
xxx-xxx-H6 (-xxx)	Stainless Steel, Painted Thermal plastic beige	² Plascoat PPA 571 ES, Beige (222)



xxx-xxx-H7 (-xxx)	Stainless Steel, Painted Almond	² DuPont Alestra Almond PFT500S8, TGIC Polyester Powder Coat ² Tiger Drylac Series 39/15020 Semi-Gloss Powder Coat ¹ Cardinal T009-BG01 Polyester TGIC Powder Coating, Full Gloss Smooth, Almond
xxx-xxx-J1 (-xxx)	Reserved	
xxx-xxx-J2 (-xxx)	Stainless Steel, painted sea foam green	¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat
xxx-xxx-J3 (-xxx)	Stainless Steel, painted Pine Green	² Tiger Drylac Pine Green 49/52650 (RAL 6028)
xxx-xxx-J4 (-xxx)	Stainless Steel, Painted White	¹ Cardinal T009-WH11 Horizon White Powder Coat ² Interpon 600 O62770S0JA TGIC Polyester Powder Coat
xxx-xxx-M1 (-xxx)	Steel, electro-tin plated	
xxx-xxx-M2 (-xxx)	Deleted	Use M5
xxx-xxx-M3 (-xxx)	Steel, zinc plated (0.0008" thick), plus bronze conversion (a.k.a. bronze irridite)	Zinc Plating Per ASTM B633-98, TYPE II Bronze, EXCEPTIONS: FE/ZN 20 (20 µm thick) (for Severe Environments) Must be RoHS-compliant
xxx-xxx-M4 (-xxx)	Steel, zinc plated (0.0010" thick), plus bronze conversion (a.k.a. bronze irridite)	Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 25 (for Very Severe Environments) Must be RoHS-compliant
xxx-xxx-M5(-xxx)	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process	Zinc Plating: G90-Commercial Quality per ASTM A653/A653M-06 (for BBY)
xxx-xxx-M6(-xxx)	Steel, Zinc Plated (0.0002" Thick) Plus Clear Conversion	Zinc Plating Per ASTM B633-98, TYPE III Clear, FE/ZN 5, Bright Must be RoHS-compliant
xxx-xxx-N1 (-xxx)	Steel, bare (no finish)	
xxx-xxx-N2 (-xxx)	Steel, hot dip galvanized	Zinc plating per ASTM A123
xxx-xxx-N3 (-xxx)	Steel, electro-galvanized	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface



xxx-xxx-N4 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion (a.k.a. bronze irridite)	Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8, Bright Must be RoHS-compliant
xxx-xxx-N5 (-xxx)	Steel, zinc plated (0.0003" thick), plus clear conversion (a.k.a. clear irridite)	Zinc Plating Per ASTM B633-98, TYPE III Clear, FE/ZN 8, Bright Must be RoHS-compliant
xxx-xxx-N6 (-xxx)	Steel, hot tin dipped	
xxx-xxx-N7 (-xxx)	Deleted	
xxx-xxx-N8 (-xxx)	Steel, iron phosphate dipped	
xxx-xxx-N9 (-xxx)	Steel, tin plated (ferrostan)	
xxx-xxx-N10(-xxx)	Steel, electro-galvanized, painted Apollo White Glossy	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface <u>Paint:</u> ² Tiger Drylac #39/10210 (for BBY)
xxx-xxx-N11(-xxx)	Steel, zinc plated (.0002 thick) plus black conversion	Zinc plating per ASTM B633-98, Type 2, Black FE/ZN 5 Semi-Bright Must be RoHS-compliant
xxx-xxx-N12(-xxx)	Steel, painted "Solaris" Beige	² Tiger Drylac Series 49/70520 (RAL9002) TGIC Polyester Powder Coat (for Burnaby)
xxx-xxx-N13(-xxx)	Steel, electro-galvanized, painted "Solaris" Beige	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface ² Tiger Drylac Series 49/70520 (RAL9002) TGIC Polyester Powder Coat (for Burnaby)
xxx-xxx-N14(-xxx)	Steel, electro-galvanized, painted Gloss Black	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface ¹ Cardinal T009-Bk12 #17038 Black TGIC Polyester Powder Coat (for Burnaby)
xxx-xxx-N15(-xxx)	Steel, electro-galvanized, painted Dark Green	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface ¹ Cardinal C006-GN03 Green TGIC Free Polyester Powder Coat Semi Gloss Smooth Green



xxx-xxx-N16(-xxx)	Steel, electro-galvanized, painted textured, semi-gloss, Alpha Blue.	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface ³Cardinal C241-BL628, LS# 16989 Dark Blue, Textured, Semi-Gloss, Polyester Powder Coat ²Dupont (Dongguan Dupont Huajia Performance Coatings Limited Company, China) Alesta AE7150431-S Midnight Blue/RAL 5011, Semi Gloss, TGIC free Polyester Powder Coat ¹Huacai JJ301C, Textured Blue Powder Coat
xxx-xxx-N17(-xxx)	Steel, electro-galvanized, painted flat black	Zinc Coated Per A879/A879M-04 by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface ²Morton Thiokol 80-7001 Corvel Solar Black TGIC Polyester Powder Coat ¹Cardinal #E300-BK147 Flat Black Epoxy CSC Powder Coating Ltd D-7697 (China for BBY) ²Huacai EN275CA Black Powder Coat
xxx-xxx-N18 (-xxx)	Steel, electro-galvanized, painted textured, dark gray	³Dongguan Little Sparrow Plastic Technology Co., Ltd. BH7203, Textured, Polyester Powder Coat ²Dongguan Shi Li Hui Industrial Co., Ltd. H5312194 Outdoor Sand Texture Gray
xxx-xxx-P1 (-xxx)	Steel, painted ASA-61 semi-gloss gray	¹Cardinal T008-GR736 Gray Powder Coat (UL Recognized) ²Guangzhou P-GY9452-S5 Gray Powder Coat
xxx-xxx-P2 (-xxx)	Steel, painted gray leatherette	² Protech HT212A4 (was H1000AT4) Textured Gray Hybrid Powder Coat (UL Recognized)
xxx-xxx-P3 (-xxx)	Steel, painted semi-gloss black	²Protech DS311N12 (was PS311N1) Semi Gloss Black TGIC Polyester Powder Coat (UL Recognized) (for Burnaby) ¹Cardinal T002 – BK08 TGIC Polyester Black Powder Coat
xxx-xxx-P4 (-xxx)	Steel, painted light tan (for Albar/C-Cor)	² Glidden Pulvalure 6DI06 Lite Tan TGIC Polyester Powder Coat (UL Recognized)
xxx-xxx-P5 (-xxx)	Steel, painted fieldstone tan (for TRIUMF)	² Sherwin-Williams 47982 Code F2NG59 Fieldstone Tan

xxx-xxx-P6 (-xxx)	Steel, painted midnight blue	² Protech PS211B2 (was P100B2) Midnight Blue TGIC Polyester Powder Coat (UL Recognized)
xxx-xxx-P7 (-xxx)	Steel, painted platinum (for Compower)	² Protech HS412H36 (was H1000H36) Platinum Hybrid Powder Coat (UL Recognized)
xxx-xxx-P8 (-xxx)	Steel, painted textured fog grey	² TCI 6132-7047 Textured hybrid epoxy fog grey Powder coating
xxx-xxx-P9 (-xxx)	Steel, painted textured black	² Protech ET442N2 (was E2000NT2) Textured Black Epoxy Powder Coat
xxx-xxx-P10 (-xxx)	Steel, painted Central Office White	² Dupont Powder Coatings Central Office White UFW-563-S3, Urethane Powder Coat
xxx-xxx-P11 (-xxx)	Steel, painted Charcoal Gray	² Tiger Drylac 49/80076 TGIC Polyester Powder Coat (for Burnaby)
xxx-xxx-P12 (-xxx)	Steel, painted Semi-Gloss Texture Black ATL finish code 243	³ Cardinal C241-BK01 - Polyester Powder Coat, (TGIC free)
xxx-xxx-R1 (-xxx)	Steel, painted BTS light gray (for Northern Telecom)	² Northern Telecom Specification NPS-90164 and Northern Telecom Observational Standard S-30480
xxx-xxx-R2 (-xxx)	Steel, painted sea foam green	¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat
xxx-xxx-R3 (-xxx)	Steel, painted white	¹ Cardinal T009-WH11 Horizon White Powder Coat ² Interpon 600 O62770S0JA TGIC Polyester Powder Coat
xxx-xxx-R4 (-xxx)	Steel, painted flat black	² Morton Thiokol 80-7001 Corvel Solar Black TGIC Polyester Powder Coat ¹ Cardinal #E300-BK147 Flat Black Epoxy ² CSC Powder Coating Ltd D-7697 (China for BBY) ² Huacai EN275CA Black Powder Coat
xxx-xxx-R5 (-xxx)	Steel, painted textured gray	² Protech PC 4732 Blue-Gray Textured Hybrid (Epoxy/Polyester) Powder Coat
xxx-xxx-R6 (-xxx)	Steel, painted electrical gray	² Protech PS211A4 (was P100A4) Electrical Gray TGIC Polyester Powder Coat (UL Recognized)



xxx-xxx-R7 (-xxx)	Steel, painted "CFR gray"	² Sherwin-Williams H-2415-2T Pro Grey Texture Hybrid Powder Coat ² Tiger Drylac 209/72250 Textured Light Gray Epoxy Polyester Hybrid Powder Coat
xxx-xxx-R8 (-xxx)	Steel, painted designer beige	² Valspar IF-2407 Designer Beige Urethane Powder Coat
xxx-xxx-R9 (-xxx)	Steel, painted charcoal gray (for MPR)	² Tiger Drylac Series 209-71390 (ATM Gray) Fine Textured Gray Polyester Powder Coat
xxx-xxx-R10 (-xxx)	Steel, painted semi gloss beige	³ Cardinal T241-BG414 Beige Polyester TGIC Powder Coating Semi Gloss Texture
xxx-xxx-R11(-xxx)	Steel, painted quartz gray	³ Cardinal industrial grey quartz (T243GR301) TGIC polyester
xxx-xxx-R12(-xxx)	Steel, painted textured black	³ Cardinal T241-BK59 polyester GIC powder coat ² Huacai EN372C, Textured Black Powder Coat
xxx-xxx-T1 (-xxx)	Steel, painted semi-gloss green	² Tiger Drylac Series 49 Semi-Gloss RAL6021
xxx-xxx-T2 (-xxx)	Steel, painted safety red	² DOW Plastics ENVELON Series Safety Red (SR) Powder Coat
xxx-xxx-T3 (-xxx)	Steel, painted high-temp flat black	Flame Control 450C High-Temp Flat Black
xxx-xxx-T4 (-xxx)	Steel, painted Hammertone gray	² Protech HV 212 A9 Hammertone Gray Hybrid Powder Coat
xxx-xxx-T5 (-xxx)	Steel, painted silver gray	² Protech HM 212 AS4 Silver Gray Hybrid Powder Coat
xxx-xxx-T6 (-xxx)	Steel, painted zinc primer gray	² Tiger Drylac 69/90350 Zinc Rich Primer Powder Coat
xxx-xxx-T7 (-xxx)	Steel, painted anti-graffiti sea foam green	² Tiger Drylac Series 248/50020 Anti-Graffiti Sea Foam Green Hybrid Powder Coat
xxx-xxx-T8 (-xxx)	Steel, painted anti-graffiti ASA-61 semi-gloss gray	² Tiger Drylac Series 248/70050 Anti-Graffiti ASA-61 Semi-gloss Gray Hybrid Powder Coat
xxx-xxx-T9 (-xxx)	Steel, painted forest green	² Tiger Drylac Series 249/52690 Pantone 357C Green TGIC Polyester Powder Coat
xxx-xxx-T10 (-xxx)	Steel, painted textured, semi-gloss, Alpha Blue.	³ Cardinal C241-BL628, LS# 16989 Dark Blue, Textured, Semi-Gloss, Polyester Powder Coat ² Dupont (Dongguan Dupont Huajia Performance Coatings Limited Company, China) Alesta AE7150431-S Midnight Blue/RAL 5011, Semi Gloss, TGIC free Polyester Powder Coat ¹ Huacai JJ301C, Textured Blue Powder Coat



xxx-xxx-T11 (-xxx)	Steel, painted textured, dark gray	³ Dongguan Little Sparrow Plastic Technology Co., Ltd. BH7203, Textured, Polyester Powder Coat ² Dongguan Shi Li Hui Industrial Co., Ltd. H5312194 Outdoor Sand Texture Gray
xxx-xxx-U1 (-xxx)	Steel, painted pastel green	² Tiger Drylac Series 249/52860 Smooth Green TGIC Polyester Powder Coat
xxx-xxx-U2 (-xxx)	Steel, painted almond	² DuPont Alestra Almond PFT500S8, TGIC Polyester Powder Coat ² Tiger Drylac Series 39/15020 Semi-Gloss Powder Coat ¹ Cardinal T009-BG01 Polyester TGIC Powder Coating, Full Gloss Smooth, Almond
xxx-xxx-U3 (-xxx)	Steel, painted hybrid gray	² Tiger Drylac 459/70150 (was 449/71140) ¹ Cardinal GR1465-C004
xxx-xxx-U4 (-xxx)	Steel, painted Thermal plastic black	² Plascoat PPA 571 ES, Black (RAL 9005)
xxx-xxx-U5 (-xxx)	Steel, painted Pine Green	² Tiger Drylac Pine Green 49/52650 (RAL 6028)
xxx-xxx-U6 (-xxx)	Steel, painted Thermal plastic beige	² Plascoat PPA 571 ES, Beige (222)
xxx-xxx-U7 (-xxx)	Steel, painted Light blue (for econolite)	¹ Cardinal 6405-6842 Light Blue Polyurethane
xxx-xxx-U8 (-xxx)	Steel, painted Dark Blue (for econolite)	³ Cardinal TO32-BL64 Dark Blue TGIC Polyester Powder Coat
xxx-xxx-U9 (-xxx)	Steel, static charged spray paint flat black	² Proprietary Paint: Hsing Jeng Fong Chem Paint Co. Ltd. (Guang Zhou)
xxx-xxx-U10 (-xxx)	Steel, Painted Dark Blue	² Tiger Drylac 49423-90 (RAL 5022) Powder Coat
xxx-xxx-U11 (-xxx)	Steel, Painted Midnight Blue	¹ Cardinal X002-BLW01541 RAL 5011 20% Gloss Powder Coat
xxx-xxx-V1 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion, painted ASA-61 semi-gloss gray	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8 <u>Paint:</u> ¹ Cardinal T008-GR736 Gray Powder Coat (UL Recognized) Guangzhou P-GY9452-S5 Gray Powder Coat



xxx-xxx-V2 (-xxx)	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process, painted white	<u>Zinc Plating:</u> G90-Commercial Quality per ASTM A653/A653M-06 (for BBY) <u>Paint:</u> ¹ Cardinal T009-WH11 Horizon White Powder Coat ² Interpon 600 O62770S0JA TGIC Polyester Powder Coat
xxx-xxx-V3 (-xxx)	Steel, Painted Sun Charcoal Gray	³ Cardinal C241-GR663 sun Charcoal Gray Polyester Powder Coat
xxx-xxx-V4 (-xxx)	Steel, Painted Gray Quartz	³ Cardinal Industrial Gray Quartz (T243GR301) TGIC Polyester
xxx-xxx-V5 (-xxx)	Steel, E-Coating, Non-UV Resistant, Zinc Phosphate/Water Pretreatment, Black	² POWERCRON 6100HE, (Non-UV Resistant); ² POWERCRON 6000CX, (Non-UV Resistant)
xxx-xxx-V6 (-xxx)	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process, painted seafoam green	<u>Zinc Plating:</u> G90-Commercial Quality per ASTM A653/A653M-06 (for BBY) <u>Paint:</u> ¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat
xxx-xxx-V7 (-xxx)	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process, painted textured fog grey	<u>Zinc Plating:</u> G90-Commercial Quality per ASTM A653/A653M-06 (for BBY) <u>Paint:</u> ² TCI 6132-7047 Textured hybrid epoxy fog grey Powder coating
xxx-xxx-V8 (-xxx)	Steel, E-Coating, Non-UV Resistant, Zinc Phosphate/Water Pretreatment, Painted Flat Black	<u>E-coating:</u> ² POWERCRON 6100HE, (Non-UV Resistant); ² POWERCRON 6000CX, (Non-UV Resistant) <u>Paint:</u> ² Morton Thiokol 80-7001 Corvel Solar Black TGIC Polyester Powder Coat ¹ Cardinal E300-BK147 Flat Black Epoxy



xxx-xxx-V9 (-xxx)	Steel, E-Coating, Non-UV Resistant, Zinc Phosphate/Water Pretreatment, Painted White	<u>E-coating:</u> ² POWERCRON 6100HE, (Non-UV Resistant); ² POWERCRON 6000CX, (Non-UV Resistant) <u>Paint:</u> ¹ Cardinal T009-WH11 Horizon White Powder Coat ² Interpon 600 O62770S0JA TGIC Polyester Powder Coat
xxx-xxx-V10 (-xxx)	Steel, E-Coating, Non-UV Resistant, Zinc Phosphate/Water Pretreatment, Painted Sea Foam Green	<u>E-coating:</u> ² POWERCRON 6100HE, (Non-UV Resistant); ² POWERCRON 6000CX, (Non-UV Resistant) <u>Paint:</u> ¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat
xxx-xxx-W1 (-xxx)	Reserved	
xxx-xxx-W2 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion, painted sea foam green	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8 <u>Paint:</u> ¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat



xxx-xxx-W3 (-xxx)	Steel, zinc Plated (0.0008" thick), plus bronze conversion, painted sea foam green	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, EXCEPTIONS: FE/ZN 20 (20 µm thick) <u>Paint:</u> ¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat (For severe environments)
xxx-xxx-W4 (-xxx)	Steel, zinc Plated (0.0010" thick), plus bronze conversion, painted sea foam green	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 25 <u>Paint:</u> ¹ Cardinal T009-GN325 Sea Foam Green Powder Coat ² Interpon 600 O616396S1JK TGIC Polyester Powder Coat (For very severe environments)
xxx-xxx-W5 (-xxx)	Steel, Zinc Plated (.0008 Thk.), plus bronze conversion, painted almond. (a.k.a. Bronze Irridite)	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, EXCEPTIONS: FE/ZN 20 (20 µm thick) <u>Paint:</u> ² DuPont Alestra Almond PFT500S8, TGIC Polyester Powder Coat ² Tiger Drylac Series 39/15020 Semi-Gloss Powder Coat ¹ Cardinal T009-BG01 Polyester TGIC Powder Coating, Full Gloss Smooth, Almond (For severe environments)



xxx-xxx-W6 (-xxx)	Steel, Zinc Plated (.0010 Thk.), plus bronze conversion, painted almond. (a.k.a. Bronze Irridite)	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 25 <u>Paint:</u> ² DuPont Alestra Almond PFT500S8, TGIC Polyester Powder Coat ² Tiger Drylac Series 39/15020 Semi-Gloss Powder Coat ¹ Cardinal T009-BG01 Polyester TGIC Powder Coating, Full Gloss Smooth, Almond (For very severe environments)
xxx-xxx-W7 (-xxx)	Steel, zinc plated (0.0008" thick), plus bronze conversion (a.k.a bronze irridite), Painted flat black.	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, EXCEPTIONS: FE/ZN 20 (20 µm thick) <u>Paint:</u> ² Morton Thiokol 80-7001 Corvel Solar Black TGIC Polyester Powder Coat. ¹ Cardinal E300-BK147 Flat Black Epoxy ² Huacai EN275CA Black Powder Coat (For severe environments)
xxx-xxx-W8 (-xxx)	Steel, Zinc plated (0.0010" thick), plus bronze conversion (a.k.a bronze irridite), painted flat black.	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 25 <u>Paint:</u> ² Morton Thiokol 80-7001 Corvel Solar Black TGIC Polyester Powder Coat ¹ Cardinal E300-BK147 Flat Black Epoxy ² Huacai EN275CA Black Powder Coat (For very severe environments)



xxx-xxx-W9 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion, painted Midnight Blue	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8 <u>Paint:</u> ¹ Cardinal X002-BLW01541 RAL 5011 20% Gloss Powder Coat
xxx-xxx-W10 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion, painted White	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8 <u>Paint:</u> ¹ Cardinal T009-WH11 Horizon White Powder Coat ² Interpon 600 O62770S0JA TGIC Polyester Powder Coat
xxx-xxx-W11 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion, painted Pine Green	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8 <u>Paint:</u> ² Tiger Drylac Pine Green 49/52650 (RAL 6028)
xxx-xxx-W12 (-xxx)	Steel, zinc plated (0.0003" thick), plus bronze conversion, painted "Generac" Beige	Must be RoHS-compliant <u>Plating:</u> Zinc Plating Per ASTM B633-98, TYPE II Bronze, FE/ZN 8 <u>Paint:</u> ² Powder Technology, Inc. #PT-TS95-TS35 Compartment Tan 2SD TGIC
xxx-xxx-X1 (-xxx)	NCFR Insulation Board painted high-temp black	painted xxx-xxx-T3 by Homasote Co was xxx-xxx-28
xxx-xxx-X2 (-xxx)	Brass, tin plated	was xxx-xxx-30
xxx-xxx-X3 (-xxx)	Glastic, painted ASA-61 semi-gloss gray	was xxx-xxx-27
xxx-xxx-X4 (-xxx)	Tin, bare (no finish)	was xxx-xxx-31
xxx-xxx-X5 (-xxx)	Phosphor Bronze, bare (no finish)	
xxx-xxx-X6 (-xxx)	Phosphor Bronze, tin plated	
SECTION Y FOR STEEL WITH RoHS COMPLIANT PLATINGS/COATINGS		



xxx-xxx-Y1 (-xxx) DO NOT USE FOR NEW PARTS. USE -M6	Steel, Zinc Plated (0.0002" Thick) plus clear conversion	Zinc Plating Per ASTM B633-98, TYPE III Clear, FE/ZN 5, Bright Must be RoHS-compliant
xxx-xxx-Y2 (-xxx)	Deleted	
xxx-xxx-Y3 (-xxx)	Deleted	
xxx-xxx-Y4 (-xxx)	Deleted	
xxx-xxx-Y5 (-xxx)	Deleted	
xxx-xxx-Y6 (-xxx) DO NOT USE FOR NEW PARTS. USE -N11	Steel, zinc plated (.0002 thick) plus black conversion	Zinc plating per ASTM B633-98, Type II, Black, FE/ZN 5 Semi-Bright Must be RoHS-compliant
xxx-xxx-Y7 (-xxx)	Deleted	
xxx-xxx-Y8 (-xxx)	Deleted	
xxx-xxx-Y9 (-xxx)	Deleted	
xxx-xxx-Y10 (-xxx)	Deleted	
xxx-xxx-Y11 (-xxx)	Deleted	
xxx-xxx-Y12 (-xxx)	Deleted	
xxx-xxx-Y13 (-xxx)	Deleted	
xxx-xxx-Y14 (-xxx)	Deleted	
xxx-xxx-11 (-xxx)	Copper, bare (no finish)	
xxx-xxx-12 (-xxx)	Copper, cadmium plated	
xxx-xxx-13 (-xxx)	Copper, tin plated	
xxx-xxx-14 (-xxx)	Copper, nickel plated	
xxx-xxx-15 (-xxx)	Copper, silver plated	
xxx-xxx-16 (-xxx)	Brass, bare (no finish)	
xxx-xxx-17 (-xxx)	Brass, cadmium plated	
xxx-xxx-18 (-xxx)	Brass, nickel plated	
xxx-xxx-19 (-xxx)	Copper, with silver immersion (a.k.a. silver wash)	
xxx-xxx-20 (-xxx) to xxx-xxx-99 (-xxx) (except xxx-xxx-26)	Reserved for assemblies that may have silkscreen requirements	
xxx-xxx-26 (-xxx)	Glastic, bare (no finish)	
xxx-xxx-27 (-xxx)	Reserved for assemblies that may have silkscreen requirements	Was "Glastic, painted ASA-61 semi-gloss gray" - now see xxx-xxx-X3
xxx-xxx-28 (-xxx)	Reserved for assemblies that may have silkscreen requirements	Was "NCFR Insulation Board painted xxx-xxx-T3 by Homasote Co." - now see xxx-xxx-X1



xxx-xxx-30 (-xxx)	Reserved for assemblies that may have silkscreen requirements	Was "Brass, tin plated" - now see xxx-xxx-X2
xxx-xxx-31 (-xxx)	Reserved for assemblies that may have silkscreen requirements	Was "Tin, bare (no finish)" - now see xxx-xxx-X4

Notes

This information applies to 8 or 10-digit part numbers and 8 or 10-digit drawing numbers of format xxx-xxx-xx or xxx-xxxx-xx, and 11 or 13-digit part numbers of format xxx-xxx-xx-xxx or xxx-xxxxx-xx-xxx.

Drawings for metal parts have "00" as the last two digits. Part numbers of parts manufactured from these drawings use the first six digits of the drawing number and use the next two digits as a code that: (a) describes the material in general terms (in order to choose between material options, if applicable), and (b) specifies the finish, as shown in the table above. E.g. part number 567-035-A2 is produced from drawing number 567-035-00, in aluminum with a gold chromate conversion finish. Part number 567-035-P1 is also produced from drawing number 567-035-00, but in steel with an ASA-61 gray paint finish.

Consult the drawing for the exact material specification. The part number code does not differentiate between material grades (for example: utility grade aluminum and 6061 aluminum).

Revisions History:

*NOTE: SEE REVISION BZ OF THIS DOCUMENT FOR HISTORY PRIOR TO REVISION CA