

**NOTES:**

| REVISIONS |                           |          |       |
|-----------|---------------------------|----------|-------|
| REV       | DESCRIPTION, ECN, EAR NO. | DATE     | APP'D |
| A         | INITIAL RELEASE           | AUG22/22 | K.T   |

**ELECTRICAL:**

1. 60 VDC WITH MAXIMUM POWER 100 W
2. CURRENT RATING: 1.25 AMPS PER CONTACT.
3. INSULATING RESISTANCE : 500 MEGAOHMS MINIMUM.
4. DIELECTRIC STRENGTH : 1000 VAC 60Hz, 1MIN.
5. CATEGORY 6A CHARACTERISTIC

| FREQUENCY<br>MHZ | NEAR-END CROSSTALK<br>dB, MIN. | RETURN LOSS<br>dB, MIN. | INSERTION LOSS<br>dB, MAX. |
|------------------|--------------------------------|-------------------------|----------------------------|
| 1.0              | 75.0                           | 30.0                    | 0.1                        |
| 4.0              | 75.0                           | 30.0                    | 0.1                        |
| 8.0              | 75.0                           | 30.0                    | 0.1                        |
| 10.0             | 74.0                           | 30.0                    | 0.1                        |
| 16.0             | 69.9                           | 30.0                    | 0.1                        |
| 20.0             | 68.0                           | 30.0                    | 0.1                        |
| 25.0             | 66.0                           | 30.0                    | 0.1                        |
| 31.25            | 64.1                           | 30.0                    | 0.11                       |
| 62.5             | 58.1                           | 30.0                    | 0.16                       |
| 100.0            | 54.0                           | 28.0                    | 0.20                       |
| 200.0            | 48.0                           | 22.0                    | 0.28                       |
| 250.0            | 46.0                           | 20.0                    | 0.32                       |
| 300.0            | 42.9                           | 18.5                    | 0.35                       |
| 400.0            | 37.9                           | 16.0                    | 0.40                       |
| 500.0            | 34.0                           | 14.0                    | 0.45                       |

**MECHANICAL:**

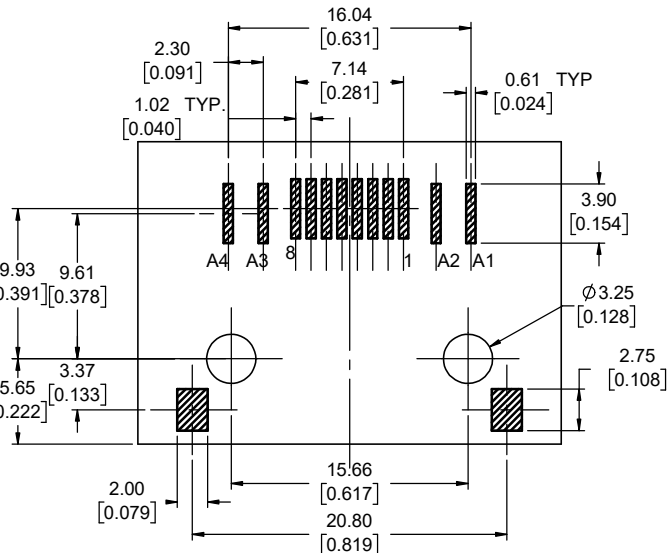
1. SHIELD: STAINLESS STEEL WITH 100u" MATTE TIN OVER 20u" MIN. NICKEL UNDERPLATE
2. HOUSING: HIGH TEMP THERMOPLASTIC. UL 94V-0.
3. CONTACT: PHOSPHOR BRONZE.  
SELECTIVE GOLD PLATING FOR MATING SURFACE,  
50u" MIN. NICKEL UNDERPLATE  
100u" MATTE TIN PLATING ON CONTACT SOLDER TAIL.
4. COPLANARITY:  
THE MAXIMUM GAP BETWEEN ALL TERMINAL TAILS IS 0.10 [0.004]

**ENVIRONMENTAL:**

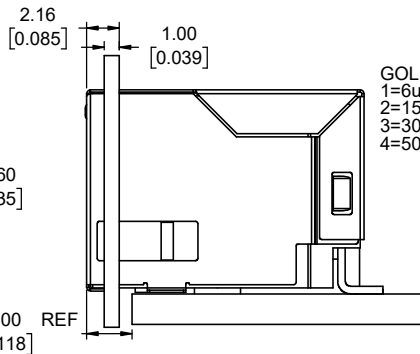
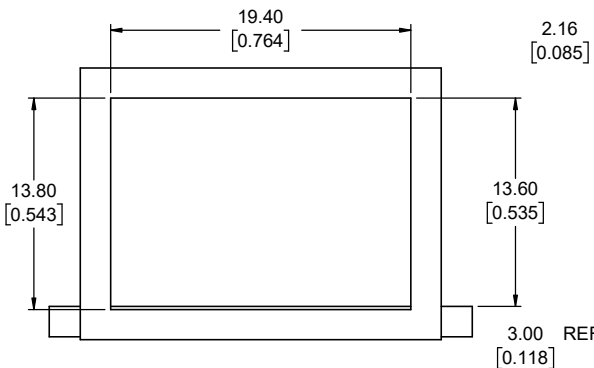
1. OPERATION: -55 °C TO +85°C
2. MATES WITH MODULAR PLUG CONFORMING TO TIA 1096 STANDARD.
3. RECOMMENDED SOLDER PROCESS:  
REFLOW SOLDER, PEAK TEMPERATURE 260°C FOR 10 SECONDS MAX.

RJ CONNECTOR CONFORMS TIA-1096 STANDARD

AMPHENOL PART NUMBER DESCRIPTION: RJE3C-188-6XX2



RECOMMENDED PCB LAYOUT  
VIEW FROM COMPONENT SIDE  
TOLERANCE: +/-0.05[0.002]



GOLD PLATING OPTION  
1=6u" GOLD PLATING  
2=15u" MIN GOLD PLATING  
3=30u" MIN GOLD PLATING  
4=50u" MIN GOLD PLATING  
LED COLOR  
SEE PAGE 2

|                            |                        |                      |          |
|----------------------------|------------------------|----------------------|----------|
| UNLESS SPECIFIED OTHERWISE | DRAWN                  | JAMISON.C            | AUG22/22 |
| PRIMARY UNITS MILLIMETERS  | CHECKED                | L.CHAN               | AUG22/22 |
| SECONDARY INCHES           | M.E.                   | APP'D                |          |
| REFERENCE IN PARENTHESES   | Q.A.                   | APP'D                |          |
| GENERAL TOLERANCES         | DWG APPR.              |                      |          |
| 1 DECIMAL PLACE            | ENG. REL. NO.          |                      |          |
| 2 DECIMAL PLACES ±0.25     | REF.                   |                      |          |
| 3 DECIMAL PLACES ±0.13     |                        |                      |          |
| ANGULAR DEGREES ±1°        |                        |                      |          |
|                            | THIRD ANGLE PROJECTION | DO NOT SCALE DRAWING |          |

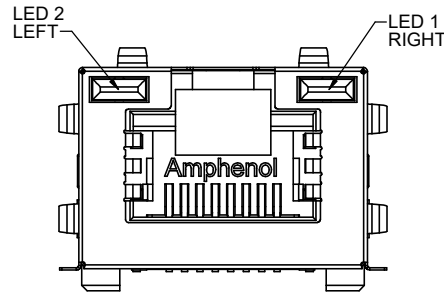
**Amphenol Canada Corp.**  
Commercial Products

MODULAR JACK, SINGLE PORT, 8P8C, SHIELDED WITHOUT TABS, TAB UP, WITH LED, CAT 6A, RoHS COMPLIANT

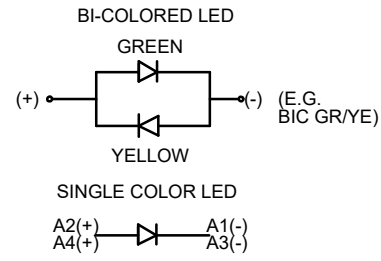
DWG. NO. **P-RJE3C-188-6XX2** REV **A**

CODE ID NO. 03554 | DWG SIZE: N/A | SCALE: FIT | SHEET 1 OF 3

| REVISIONS |                           |          |       |
|-----------|---------------------------|----------|-------|
| REV       | DESCRIPTION, ECN, EAR NO. | DATE     | APP'D |
| A         | INITIAL RELEASE           | AUG22/22 | K.T   |
|           |                           |          |       |



**LED SCHEMATIC**



| CODE | LED 2 (LEFT) | LED 1 (RIGHT) | CODE | LED 2 (LEFT)       | LED 1 (RIGHT) | CODE | LED 2 (LEFT) | LED 1 (RIGHT) |  |  |
|------|--------------|---------------|------|--------------------|---------------|------|--------------|---------------|--|--|
| 0    | BLOCKED      | BLOCKED       | 9    | GREEN              | BLOCKED       | J    | BIC RD/GR    | YELLOW        |  |  |
| 1    | YELLOW       | GREEN         | A    | BIC GR/YE          | BIC GR/YE     | K    | YELLOW       | BIC GR/OR     |  |  |
| 2    | BLOCKED      | GREEN         | B    | BIC RD/GR          | BIC RD/GR     | L    | BIC GR/YE    | RED           |  |  |
| 3    | YELLOW       | BLOCKED       | C    | BIC RD/GR          | BIC GR/YE     | M    | RED          | YELLOW        |  |  |
| 4    | GREEN        | YELLOW        | D    | GREEN              | BIC GR/YE     | N    | BIC GR/RD    | BIC GR/YE     |  |  |
| 5    | GREEN        | GREEN         | E    | YELLOW             | BIC GR/YE     | P    | GREEN        | BIC GR/RD     |  |  |
| 6    | YELLOW       | YELLOW        | F    | BIC GR/YE          | YELLOW        | R    | BIC GR/OR    | GREEN         |  |  |
| 7    | RED          | GREEN         | G    | BIC GR/OR          | BIC GR/OR     | T    | RED          | RED           |  |  |
| 8    | GREEN        | RED           | H    | BIC GR/YE          | GREEN         | V    | BIC RD/GR    | GREEN         |  |  |
|      |              |               | W    | ADDITIONAL OPTIONS |               |      |              |               |  |  |

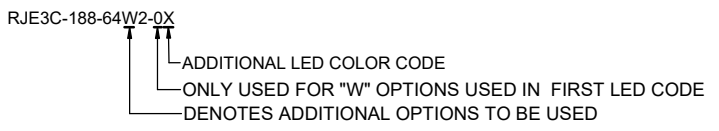
LED SPECIFICATIONS:  
 FORWARD VOLTAGE: 1.6 VOLTS TYP.  
 REVERSE VOLTAGE: 5.0 VOLTS MAX.  
 LUMINOUS INTENSITY: 0.4 mCd MIN.  
 (AT IF=2mA)  
 PLATING ON TAILS: TIN OR TIN/COPPER ALLOY OVER SILVER

LEGEND  
 BIC=BI-COLOR LED  
 LOWC=LOW CURRENT LED  
 YE=YELLOW  
 GR=GREEN  
 RE=RED  
 OR=ORANGE

PRIMARY COLOR FOR BI-COLOR LEDS IN STANDARD ANODE/CATHODE CONFIGURATION IS:  
 RED-GREEN= RED  
 RED-YELLOW= RED  
 GREEN-YELLOW= GREEN  
 GREEN-ORANGE= GREEN

NOTE:  
 THE TWO DIGITS PRECEDING THE ADDITIONAL LED CODE MUST BE USED IN THE PART NUMBER, WHEN ORDERING ANY OF THE ADDITIONAL LED OPTIONS.

EXAMPLE OF ADDITIONAL LED OPTIONS:



| CODE | LED 2 (LEFT) | LED 1 (RIGHT) | CODE | LED 2 (LEFT) | LED 1 (RIGHT) | CODE | LED 2 (LEFT) | LED 1 (RIGHT) |
|------|--------------|---------------|------|--------------|---------------|------|--------------|---------------|
| 0    | DO NOT USE   |               | 5    | BLOCKED      | YELLOW        | A    | LOWC YE      | LOWC YE       |
| 1    | RED          | BLOCKED       | 6    | RED          | BIC RD/GR     | B    | LOWC YE      | LOWC GR       |
| 2    | BIC GR/OR    | YELLOW        | 7    | BLOCKED      | BIC RD/GR     | C    | LOWC GR      | LOWC YE       |
| 3    | YELLOW       | RED           | 8    | BIC RD/GR    | BLOCKED       | D    | LOWC GR      | LOWC GR       |
| 4    | BLOCKED      | RED           | 9    | BIC GR/YE    | BLOCKED       | M    | LOWC RD      | LOWC YE       |
|      |              |               |      |              |               | E    | GREEN        | ORANGE        |
|      |              |               |      |              |               | F    | ORANGE       | GREEN         |
|      |              |               |      |              |               | G    | BIC OR/GR    | BIC OR/GR     |
|      |              |               |      |              |               | H    | BIC GR/OR    | ORANGE        |



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|                            |                        |           |          |
|----------------------------|------------------------|-----------|----------|
| UNLESS SPECIFIED OTHERWISE | DRAWN                  | JAMISON.C | AUG22/22 |
| PRIMARY UNITS MILLIMETERS  | CHECKED                | L.CHAN    | AUG22/22 |
| SECONDARY INCHES           | M.E. APP'D             |           |          |
| REFERENCE IN PARENTHESES   | Q.A. APP'D             |           |          |
| GENERAL TOLERANCES         | DWG APPR.              |           |          |
| 1 DECIMAL PLACE            | REF.                   |           |          |
| 2 DECIMAL PLACES ±0.25     | ENG. REL. NO.          |           |          |
| 3 DECIMAL PLACES ±0.13     |                        |           |          |
| ANGULAR DEGREES ±1°        | THIRD ANGLE PROJECTION |           |          |

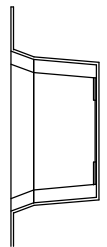
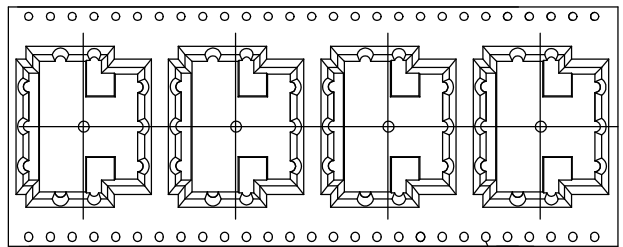
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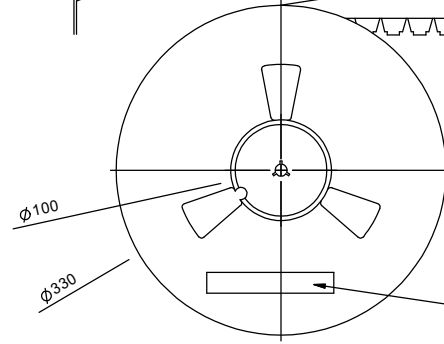
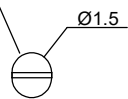
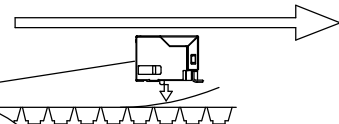
DWG. NO. **P-RJE3C-188-6XX2** REV **A**

CODE ID NO. 03554 DWG SIZE: N/A SCALE: FIT SHEET 2 OF 3

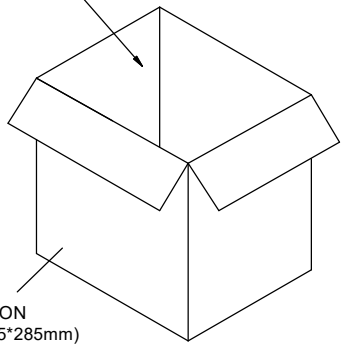
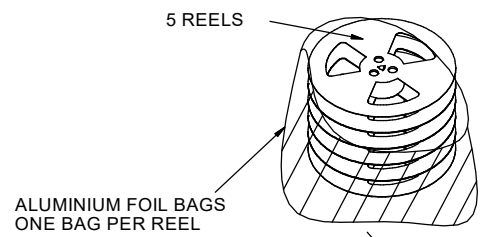
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|           |                           |          |       |



DIRECTION OF CONNECTOR LOADED INTO PICK & PLACE MACHINE



AMPHENOL P/N: RJE3C1886XX2  
 LOT#    DATE CODE    CTY OF ORIGIN: CN



**NOTES:**

1. FINISHED CONNECTORS (AFTER FINAL INSPECTION) TO BE PACKED INTO CONDUCTIVE HIPS TAPE AND REEL. ONE REEL SHOULD HOLD 125 CONNECTORS.
2. 13 EMPTY POCKETS SEALED OF TAPE LEADER AND 6 EMPTY POCKETS SEALED OF TAPE TRAILER.
3. A FULLY LOADED CARTON SHOULD CONTAIN 5 REELS (625 PCS) OF CONNECTOR.

|                            |                        |           |          |
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DWG. NO. **P-RJE3C-188-6XX2** REV **A**

CODE ID NO. 03554 | DWG SIZE: N/A | SCALE: FIT | SHEET 3 OF 3