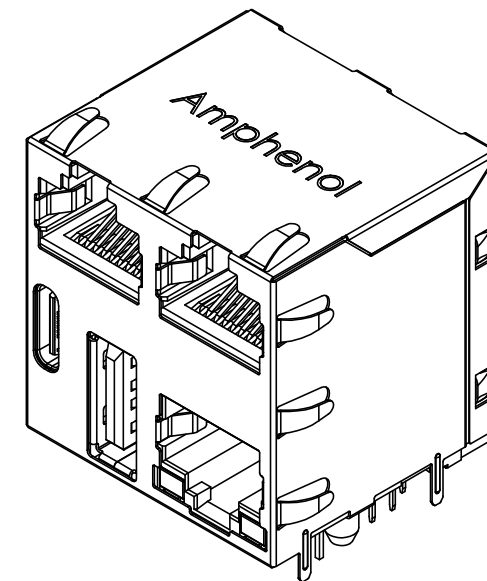
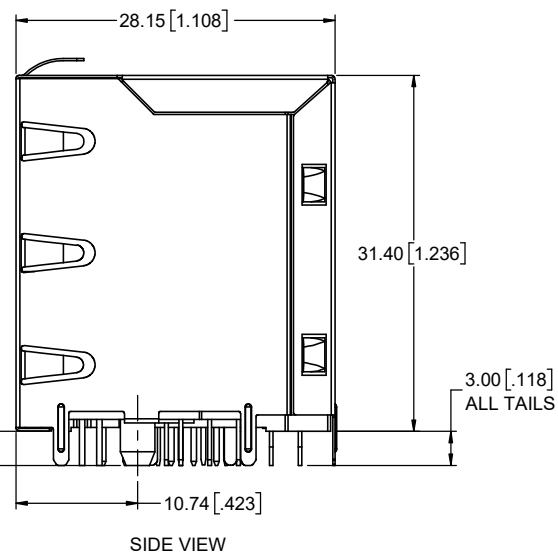
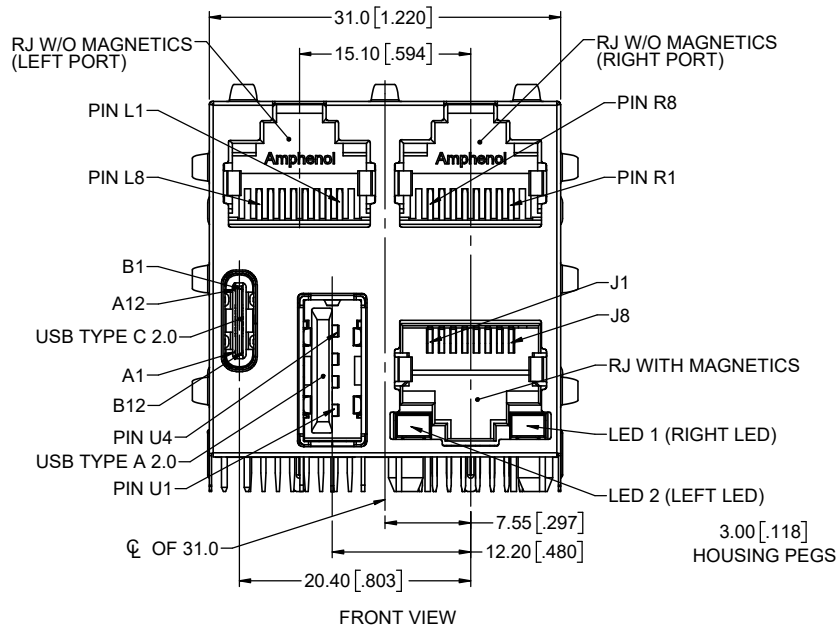




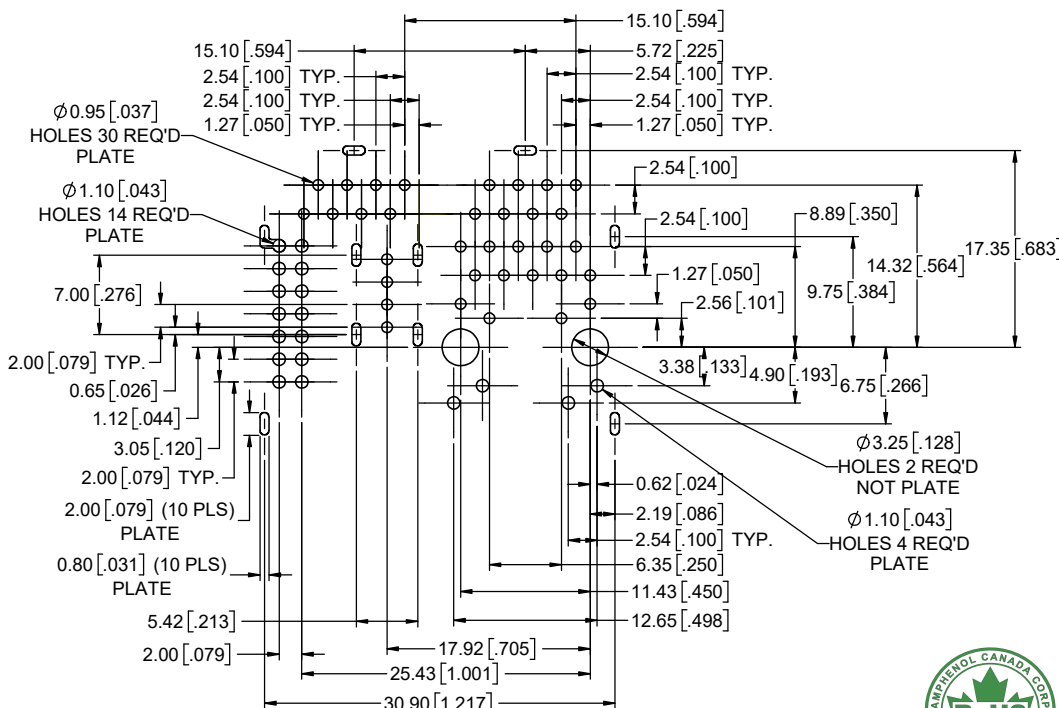
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN

NOTES:

- MATERIALS:**
CONTACTS: COPPER ALLOY
PLATING: RJ45 & USB TYPE A 2.0 CONNECTORS:
 SELECTIVE GOLD PLATING ON MATING SURFACES
 SEE PART NO. FOR THICKNESS.
 NICKEL UNDERPLATE AND TIN ON CONTACT TAILS
 USB TYPE C 2.0 CONNECTORS:
 3µ" [0.076 MICRONS] MIN. ON MATING SURFACES,
 NICKEL UNDERPLATE AND GOLD FLASH ON CONTACT TAILS
MAIN HOUSING: ENGINEERING THERMOPLASTIC, FLAMMABILITY RATING UL94V-0,
 COLOUR: BLACK
SHIELD: COPPER ALLOY OR STAINLESS STEEL WITH TIN FINISHED PCB TAILS.
- RECOMMENDED SOLDERING TEMPERATURE:**
 WAVE SOLDER PEAK TEMPERATURE 260 °C FOR 5 TO 8 SECONDS.
- AMPHENOL PART NUMBER:** RJE7G-588-XXX1-12

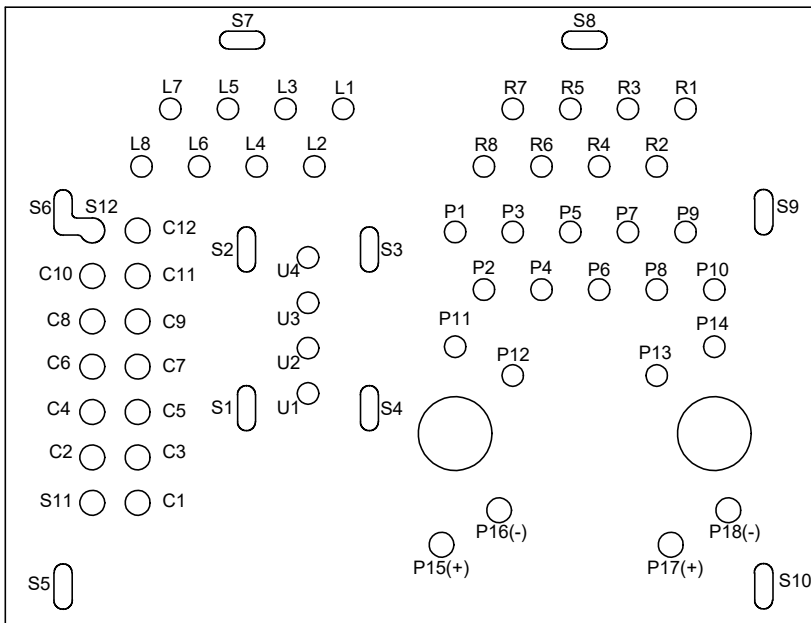
SHIELD EMI TABS OPTIONS:
 1 = WITH EMI TABS
 2 = WITHOUT EMI TAB
 REFER TO LED OPTIONS ON PAGE 4 FOR ORDERING CODES.

GOLD PLATING OPTIONS (EXCEPT USB TYPE C)
 0 = GOLD FLASH PLATING
 1 = 6µ" GOLD PLATING
 2 = 15µ" GOLD PLATING
 3 = 30µ" GOLD PLATING
 4 = 50µ" GOLD PLATING



UNLESS SPECIFIED OTHERWISE		DRAWN	RONNIE.C	JUL26/23	Amphenol Canada Corp. Commercial Products COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WITH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT P-RJE7G-588-XXX1-12 CODE ID NO. 03554 DWG. NO. X SCALE: 3:1 SHEET 1 OF 4
PRIMARY UNITS	MILLIMETRES	CHECKED	KELVIN.T	JUL26/23	
SECONDARY	INCHES	M.E. APP'D			
REFERENCE IN PARENTHESES		O.A. APP'D			
GENERAL TOLERANCES		DWG APPR.			DWG. NO. REF. THIRD ANGLE PROJECTION DO NOT SCALE DRAWING
1 DECIMAL PLACE	±0.38	ENG. REL. NO.			
2 DECIMAL PLACES	±0.25				
3 DECIMAL PLACES	±0.10				
ANGULAR DEGREES	±2°				

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN



PCB SIGNAL MARKED VIEW
(SCALE 8:1)

USB TYPE A 2.0 PIN ASSIGNMENT	
PIN NUMBER	SIGNAL NAME
U1	VBUS
U2	D-
U3	D+
U4	GND
S1 TO S4	SHIELD

RJ W/O MAGNETICS PIN ASSIGNMENT	
PIN NUMBER	SIGNAL NAME
L1,R1	TX+ D1(Transmit Data+)
L2,R2	TX- D1(Transmit Data-)
L3,R3	RX+ D2(Receive Data+)
L4,R4	BI+ D3(Bi-directional+)
L5,R5	BI- D3(Bi-directional-)
L6,R6	RX- D2(Receive Data-)
L7,R7	BI+ D4(Bi-directional+)
L8,R8	BI- D4(Bi-directional-)
S5 TO S10	SHIELD

USB TYPE C 2.0 PIN ASSIGNMENT		
PIN NUMBER		SIGNAL NAME
BOARD SIDE	CABLE SIDE	
C1	A1, B12	GND
C2	B8	SBU2
C3	--	GND (SEE PIN ASSIGNMENT NOTE 1)
C4	A4, B9	VBUS
C5	A6, B6	DP
C6	B4, A9	VBUS
C7	A7, B7	DN
C8	A5	CC1
C9	--	GND (SEE PIN ASSIGNMENT NOTE 1)
C10	B5	CC2
C11	A8	SBU1
C12	B1, A12	GND
S11, S12	--	SHIELD

PIN ASSIGNMENT NOTES:

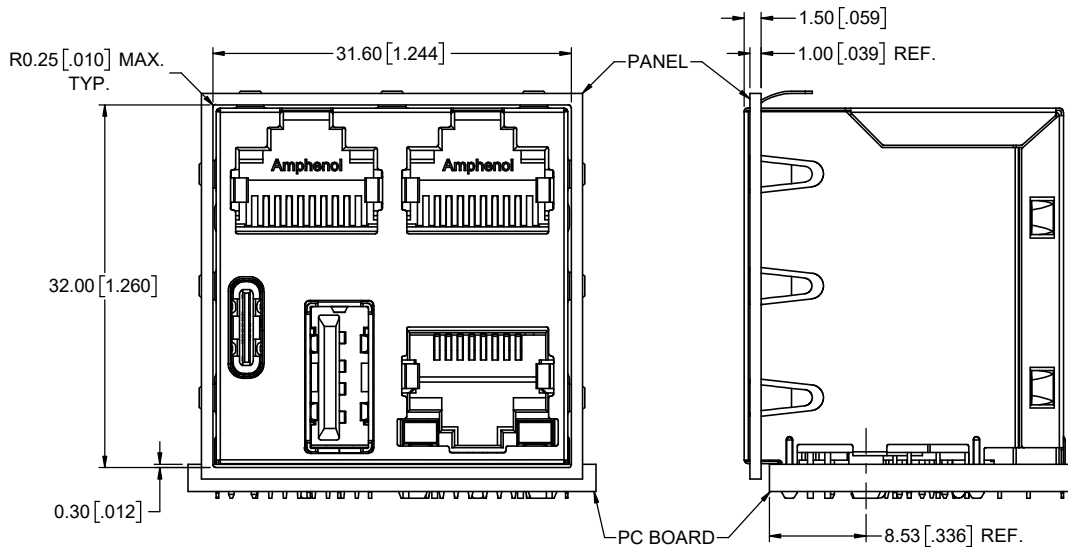
1. THE STANDALONE CONNECTOR ALREADY CONNECTS THE C3 AND C1. CONNECTS THE C9 AND C12, THE CUSTOMER DOES NOT NEED TO GROUND C3 AND C9 WHEN DESIGNING THE PC BOARD.
2. ALL PIN ASSIGNMENT ARE "GND" AND "SHIELD" WHICH REQUIRE THE CUSTOMER TO BE GROUNDED WHEN DESIGNING THE PC BOARD, INCLUDING:
--U4, S1 TO S4 FOR USB TYPE A 2.0
--S5 TO S10 FOR RJ W/O MAGNETICS
--P10 FOR RJ WITH MAGNETICS
--C1, C12, S11, S12 FOR USB TYPE C 2.0

RJ WITH MAGNETICS PIN ASSIGNMENT			
CABLE SIDE		BOARD SIDE	
PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
J1	MX0+	P1	MD0+
J2	MX0-	P2	MD0-
J3	MX1+	P3	MD1+
J4	MX2+	P4	MD1-
J5	MX2-	P5	MD2+
J6	MX1-	P6	MD2-
J7	MX3+	P7	MD3+
J8	MX3-	P8	MD3-
--	--	P9	--
--	--	P10	GND
--	--	P11	MDCT0
--	--	P12	MDCT1
--	--	P13	MDCT2
--	--	P14	MDECT3



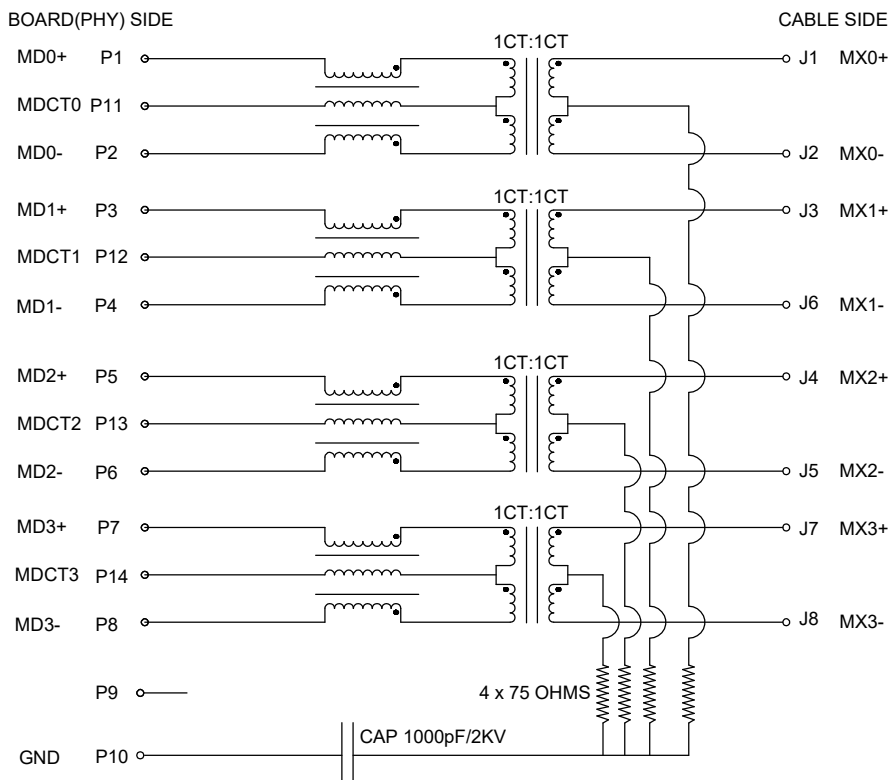
UNLESS SPECIFIED OTHERWISE	DRAWN	RONNIE.C	JUL26/23
PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	O.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE ± 0.38	ENG. REL. NO.		
2 DECIMAL PLACES ± 0.25	REF.		
3 DECIMAL PLACES ± 0.10	THIRD ANGLE PROJECTION		
ANGULAR DEGREES $\pm 2^\circ$			

Amphenol Canada Corp. Commercial Products			
COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WITH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT			
P-RJE7G-588-XXX1-12			REV A
CODE ID NO. 03554	DWG SIZE: X	SCALE: 3:1	SHEET 2 OF 4

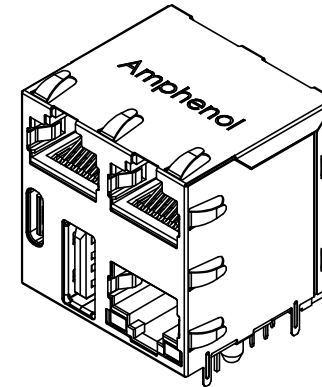


RECOMMENDED PANEL CUTOUT
(TOLERANCE: ±0.10[±0.004])

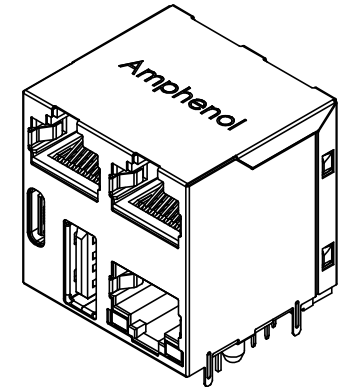
RJ45 WITH MAGNETICS SCHEMATICS:



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PN: RJE7G-588-1XX1-12
(SHIELD WITH EMI TABS AS SHOWN)



PN: RJE7G-588-2XX1-12
(SHIELD WITHOUT EMI TAB AS SHOWN)

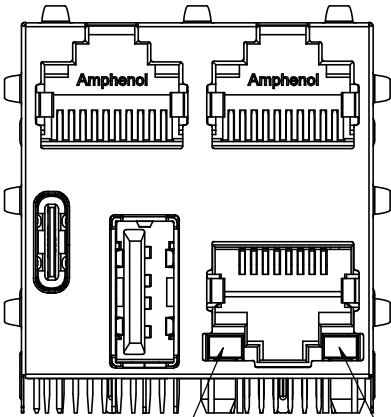
ELECTRICAL SPECIFICATION @25 °C FOR RJ45 WITH MAGNETICS:

- TURN RATIO @100KHz:
(P1-P2): (J1-J2) = 1:1 ±5%
(P3-P4): (J3-J6) = 1:1 ±5%
(P5-P6): (J4-J5) = 1:1 ±5%
(P7-P8): (J7-J8) = 1:1 ±5%
- PRIMARY INDUCTANCE:
(P1-P2): 350 µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
(P3-P4): 350 µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
(P5-P6): 350 µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
(P7-P8): 350 µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
- DC TESISTANCE:
(J1-J2):(J3-J6):(J4-J5):(J7-J8) = 1.2 OHMS MAXIMUM
- INSERTION LOSS:
1 TO 100MHz: -1.0dB MAXIMUM
100 TO 125MHz: -1.2dB MAXIMUM
- RETURN LOSS:
1 TO 40MHz: -16dB MINIMUM
40 TO 60MHz: -12dB MINIMUM
60 TO 80MHz: -10dB MINIMUM
80 TO 100MHz: -8dB MINIMUM
- CROSS TALK: -30dB MINIMUM
- ISOLATION: PHY SIDE TO CABLE SIDE: 2.250VDC
- COMMON TO COMMON MODE ATTENUATION: -30dB MIMUM @1MHz TO 100MHz

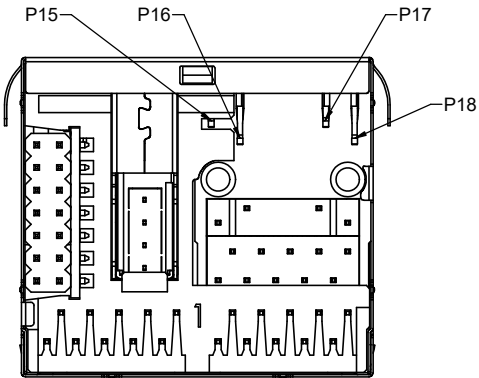
UNLESS SPECIFIED OTHERWISE	DRAWN	RONNIE.C	JUL26/23
PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	O.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE ±0.38	ENG. REL. NO.		
2 DECIMAL PLACES ±0.25	REF.		
3 DECIMAL PLACES ±0.10	THIRD ANGLE PROJECTION		
ANGULAR DEGREES ±2°	DO NOT SCALE DRAWING		

Amphenol Canada Corp. Commercial Products			
COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WITH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT			
P-RJE7G-588-XXX1-12			REV A
CODE ID NO. 03554	DWG SIZE: X	SCALE: 3:1	SHEET 3 OF 4

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN



LED 2 (LEFT LED) LED 1 (RIGHT LED)



EXAMPLE:
AMPHENOL PART NUMBER: RJE7G-588-13X1-12

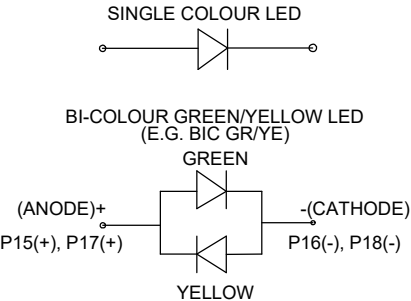
LED COLOR CODE

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 RD/GR
6	YELLOW	YELLOW	F	BiC GR/YE	GREEN	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

NOTES:

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

2. LEGEND:
BiC = BI-COLOR LED
YE = YELLOW
GR = GREEN
RD = RED
OR = ORANGE



LED SCHEMATIC



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PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	O.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE ± 0.38	ENG. REL. NO.		
2 DECIMAL PLACES ± 0.25	REF.		
3 DECIMAL PLACES ± 0.10	THIRD ANGLE PROJECTION		
ANGULAR DEGREES $\pm 2^\circ$	DO NOT SCALE DRAWING		

Amphenol Canada Corp.
Commercial Products

COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WITH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT

P-RJE7G-588-XXX1-12

CODE ID NO. 03554 DWG SIZE: X SCALE: 3:1 SHEET 4 OF 4