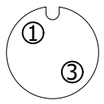
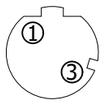
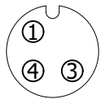
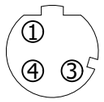
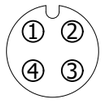
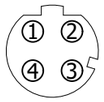
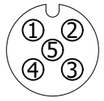
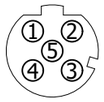
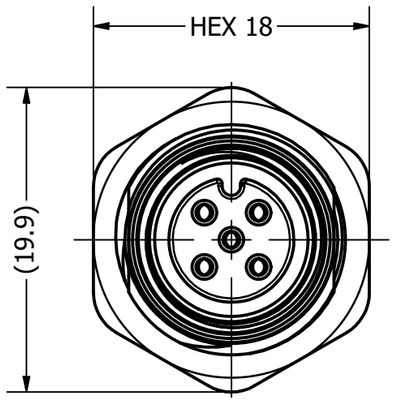
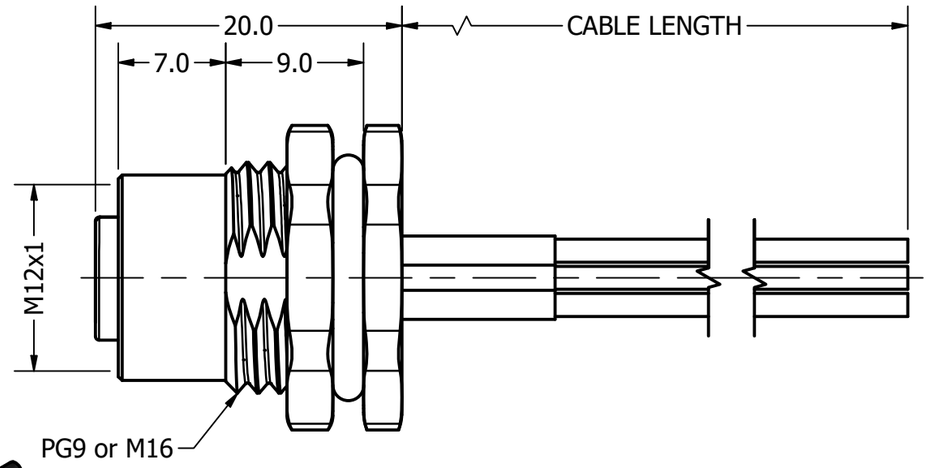
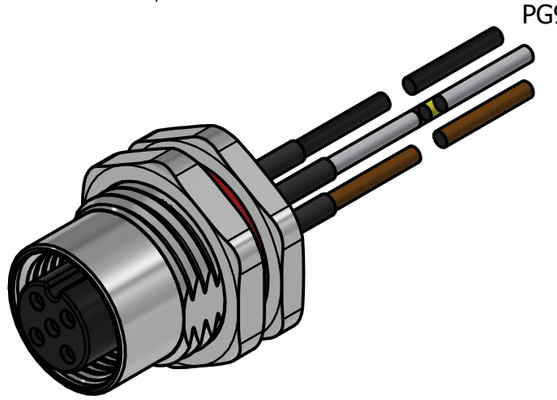
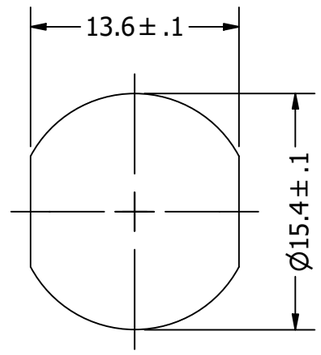
	A CODE	D CODE	CABLE GAUGE	PIN OUT
2 PIN			22 AWG	1. BLACK 3. BROWN
3 PIN			22 AWG	1. BLACK 3. BROWN 4. RED
4 PIN			22 AWG	1. BLACK 2. WHITE 3. BROWN 4. RED
5 PIN			22 AWG	1. BLACK 2. WHITE 3. BROWN 4. RED 5. YELLOW
6 PIN			24 AWG	1. BLACK 7. BLUE 2. WHITE 3. BROWN 4. RED 6. YELLOW
7 PIN			24 AWG	1. BLACK 6. BLUE 2. WHITE 7. ORANGE 3. BROWN 4. RED 5. YELLOW
8 PIN			24 AWG	1. BLACK 6. BLUE 2. WHITE 7. ORANGE 3. BROWN 8. GREEN 4. RED 5. YELLOW
9 PIN			26 AWG	1. BLACK 6. BLUE 2. WHITE 7. ORANGE 3. BROWN 8. GREEN 4. RED 9. PURPLE 5. YELLOW
10 PIN			26 AWG	1. BLACK 6. BLUE 2. WHITE 7. ORANGE 3. BROWN 8. GREEN 4. RED 9. PURPLE 5. YELLOW 10. GREY
11 PIN			26 AWG	1. BLACK 6. BLUE 11. PINK 2. BROWN 7. ORANGE 3. RED 8. GREEN 4. ORANGE 9. PURPLE 5. YELLOW 10. GREY
12 PIN			26 AWG	1. BLACK 6. BLUE 11. PINK 2. BROWN 7. ORANGE 12. LIGHT GREEN 3. RED 8. GREEN 4. ORANGE 9. PURPLE 5. YELLOW 10. GREY

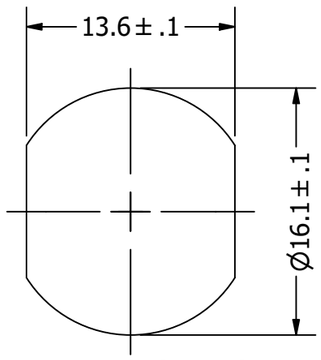








PG9 Recommended panel cutout
MAX panel thickness: 4.0



M16 Recommended panel cutout
MAX panel thickness: 4.0

Electrical:

Current rating	4A (2 ~ 5 Pins), 2A (6 ~ 8 Pins), 1.5A (9 ~ 12 Pins) AC/DC
Voltage rating	250V (2 ~ 4 Pins), 60V (5 Pins), 30V (6 ~ 12 Pins) AC/DC
Withstanding voltage	450V AC/minute between contacts
Insulation resistance	10MΩ MIN
Contact resistance	5mΩ MAX

Environmental:

Operating temperature	-40°C ~ +80°C
Ingress protection	IP67
Mating cycles	500

SCA12-XXSFXX-XXXX

- Cable length
- Panel lock thread: 1=PG9 2=M16
- Coding
- Front fastened
- Socket
- No. of contacts
- M12

PARTS LIST		
ITEM	DESCRIPTION	QTY
1	M12 socket front fastened solder type	1
2	Heat srhink tube, Colour: Black	A/R
3	UL1007 XXAWG, Colour: XX	A/R

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	24 Jun 2025	Owen Page
1.1	Updated drawing	FB / SUPP	29 Sep 2026	Peter Millard

Design Right Protected

Material:

Finish:

Gen Tol .X ±0.50, 0~0.2m ±10, 0.2~1m ±20

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Owen Page

Checked by

Approved by

©2026

Date 22 Aug 2023

A3

RoHS Compliant

CAMBRIDGE ELECTRONIC INDUSTIRES

This document and all the data contained herein is and shall remain the property of Cambridge Electronic Industries Ltd and may not be used or copied for any purpose whatsoever without the written permission of Cambridge Electronic Industries Ltd.

Description: M12 (X) Pin A/D Code Socket, Straight, Front Fastening (PG9/M16 Thread) Cable Assembly

Part No: SCA12-XXSFXX-XXXX

Issue 1.1

Sheet 1 / 1

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(CC#) M-Connectors\M12 Cable