

CA5643 Series M12 Cable Assembly Straight

General specifications

Insulation material	PA
Contact material	Copper alloy, plating: gold
Nut/Screw material	Copper alloy, plating: nickel
Current rating	2 to 5 pin: 4 A, 6 to 8 pin: 2 A, 9 to 12 pin: 1.5 A
Voltage rating	2 to 4 pin: 250 V, 5 pin: 60 V, 6 to 12 pin: 30 V
Contact resistance	5 mΩ max.
Insulator resistance	10 MΩ min.
Dielectrical withstanding	450 VAC for 1 min
Operating temperature	-40 °C to +80 °C
IP-Rating	IP 65

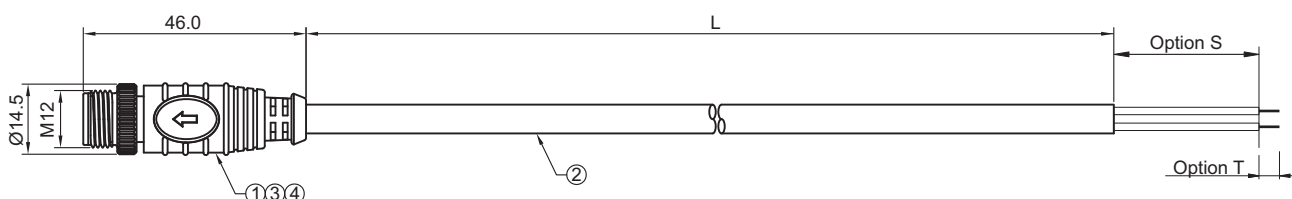
Mating parts series



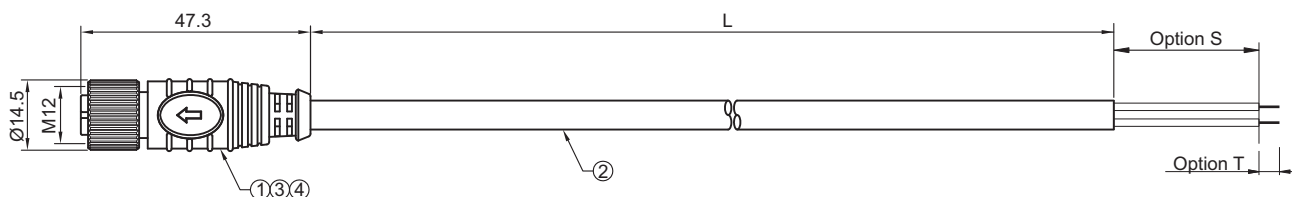
Mechanical dimensions

Unit: mm

CA5643P



CA5643S



Part descriptions	
Part no.	Description
1	M12 plug or socket solder type
2	Cable, TPU jacket, color: black, AWG (see table)
3	Outer molding TPU, color: black
4	Inner molding PVC, color: black

Tolerances		
Linear	.X	± 0.50
	.XX	± 0.30
Length	<300	± 5
	>300	± 10

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Part numbering guide

CA5643 P	02	A	050	S060	T10
Series P = Plug S = Socket	No. of contacts 02 to 12	Coding A = A-coding D = D-coding (02 to 05 contacts only)	Length L (mm)	Option S (mm) Stripped length	Option T (mm) Ends tinned

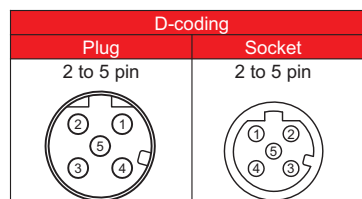
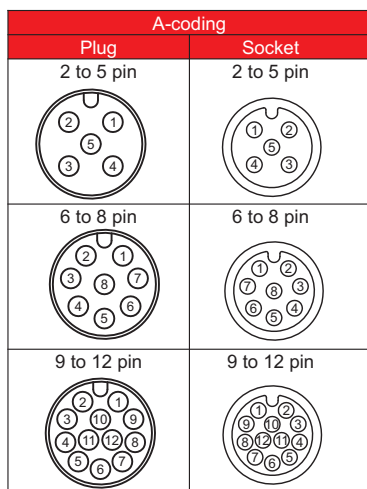
* standard



CA5643 Series M12 Cable Assembly Straight

Mechanical dimensions

Unit: mm



2 pin	
Pin	Color
1	black
3	brown
AWG 22	

3 pin	
Pin	Color
1	black
3	brown
4	red
AWG 22	

4 pin	
Pin	Color
1	black
2	white
3	brown
4	red
AWG 22	

5 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
AWG 22	

6 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
AWG 24	

7 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
7	orange
AWG 24	

8 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
7	orange
8	green
AWG 24	

9 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
7	orange
8	green
9	purple
AWG 26	

10 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
7	orange
8	green
9	purple
10	grey
AWG 26	

11 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
7	orange
8	green
9	purple
10	grey
11	pink
AWG 26	

12 pin	
Pin	Color
1	black
2	white
3	brown
4	red
5	yellow
6	blue
7	orange
8	green
9	purple
10	grey
11	pink
12	light green
AWG 26	

