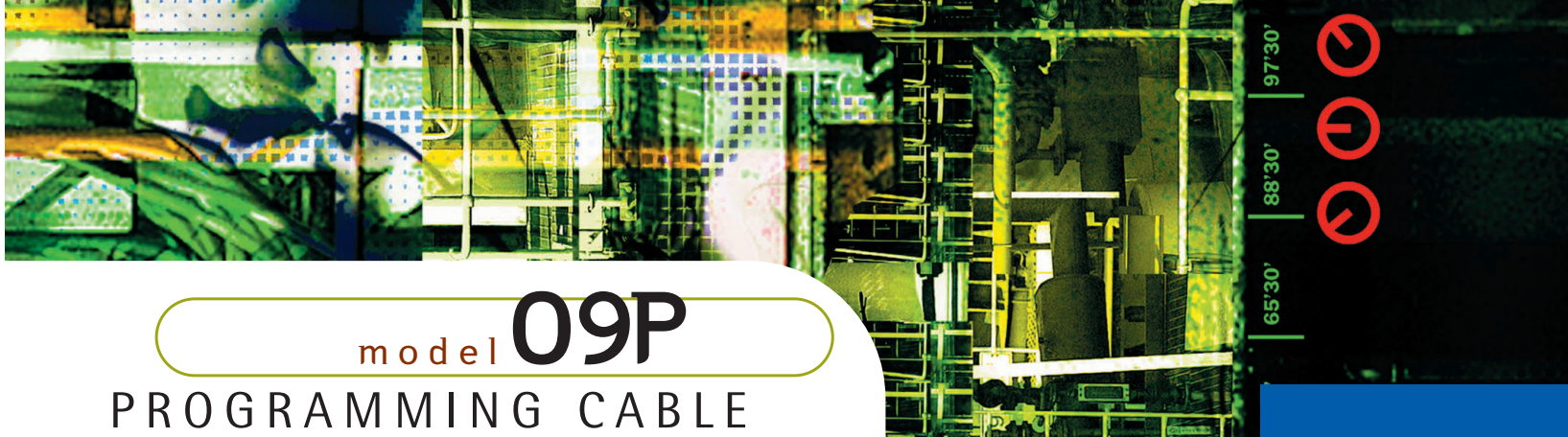




model **09P**

PROGRAMMING CABLE

technical datasheet



> features <

- Industry standard micro-plug
- Gold-plated contacts provide high durability
- Durable flexible cables
- High quality strain relief, tested to 10,000 bends
- Optional color dot marking
- Choice of connector styles and colors

> specifications <

Mechanical Data

- Insertion Force (socket/plug):
- 3 terminals >2.5 N (0.5 lb.)
 - 4 terminals >3.0 N (0.6 lb.)
 - 5 terminals >4.0 N (0.9 lb.)
- Extraction Force (socket/plug):
- 3 terminals <5.5 N (1.2 lb.)
 - 4 terminals <8.0 N (1.8 lb.)
 - 5 terminals <8.0 N (1.9 lb.)
- Bending of Cable 10,000 times (1,40 mm cable)

Electrical Data

- Plug
- Cable resistance <2 Ω /m (0.6 Ω /ft.)
 - Cable capacitance <100 pF/m (30.4 pF/ft.)
 - Operating current 500 mA max. (continuous)
 - Insulation resistance >1 M Ω

- Socket and Plug
- Contact resistance <150 m Ω
 - Contact resistance stability <150 m Ω (pulling with 100 g (0.22 lb.) in all directions)

Environmental Data

- Storage temperature range -40°C to +60°C (-40°F to +140°F)
- Operational temp. range -10°C to +55°C (14°F to +131°F)
- Humidity Conditions 10% to 95% rh.

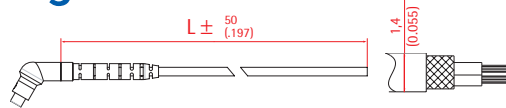
Construction

- Connector Polyamide 6.6
- Contact Tube Gold-plated copper alloy
- Cable $\varnothing$ 1,4 mm ($\varnothing$ 0.055 in.)

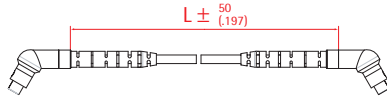
Specifications subject to change.

II connector configuration

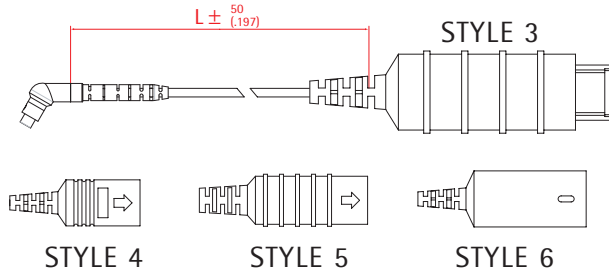
STYLE 1
(PLUG WITH OPEN END)



STYLE 2
(PLUG TO PLUG)



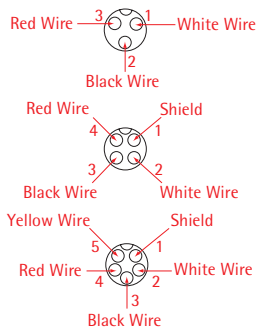
STYLE 3,
4, 5 AND 6
(PLUG TO
MINI-DIN)



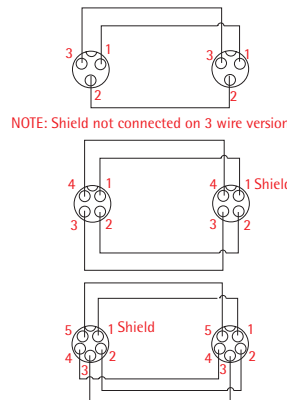
CONNECTOR CONFIGURATION

- [1] 09 PLUG AT ONE END
- [2] 09 PLUG AT BOTH ENDS
- [3] 09 PLUG WITH LONG, RIBBED MINI-DIN CONNECTOR
- [4] 09 PLUG WITH SHORT, RIBBED MINI-DIN CONNECTOR
- [5] 09 PLUG WITH LONG, RIBBED 8 PIN MINI-DIN CONNECTOR (Y-STYLE CABLE)
- [6] 09 PLUG WITH LONG, SMOOTH MINI-DIN CONNECTOR

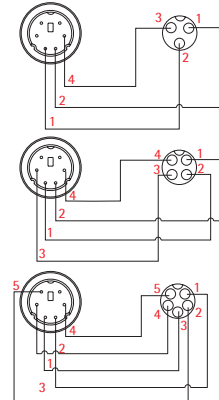
III electrical configurations



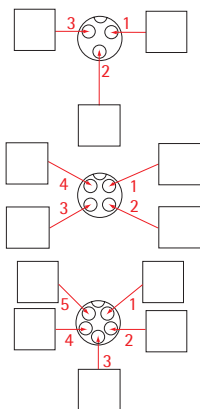
STANDARD WIRING FOR
CONNECTOR CONFIGURATION 1



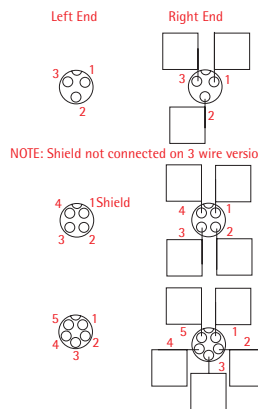
STANDARD WIRING FOR
CONNECTOR CONFIGURATION 2



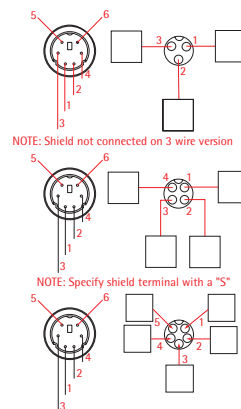
STANDARD WIRING FOR
CONNECTOR CONFIGURATION 3, 4 AND 6



CUSTOM WIRING FOR
CONNECTOR CONFIGURATION 1



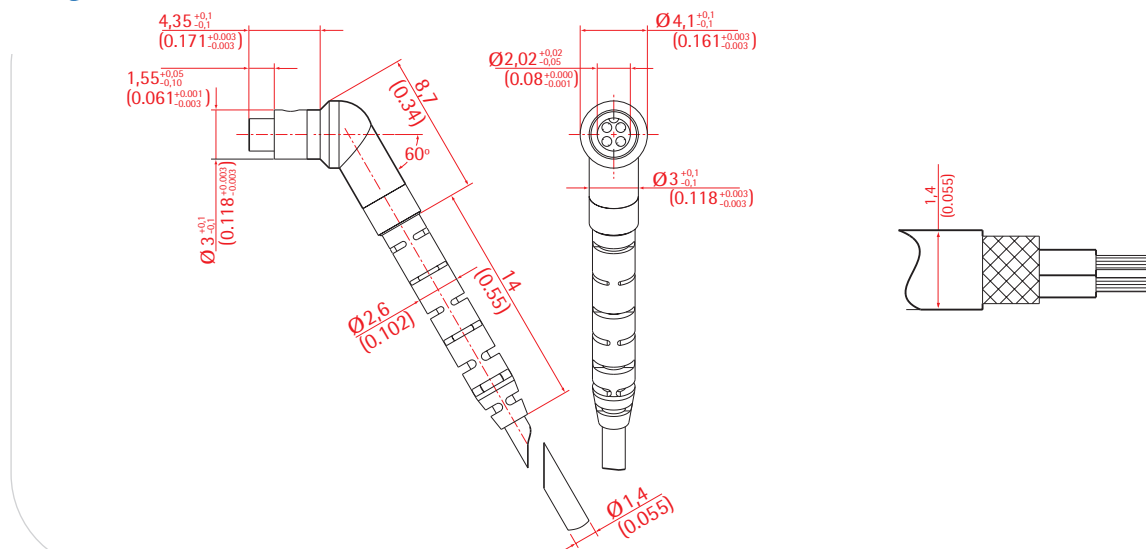
CUSTOM WIRING FOR
CONNECTOR CONFIGURATION 2



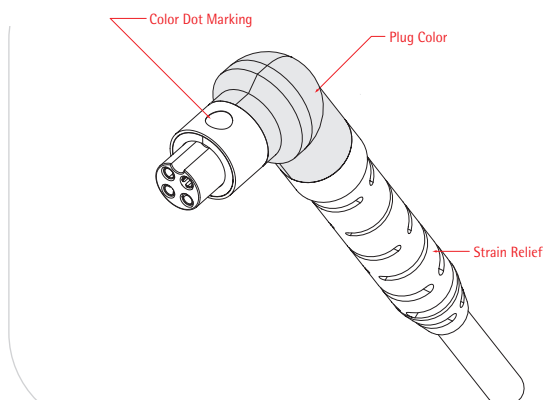
CUSTOM WIRING FOR
CONNECTOR CONFIGURATION 3, 4 AND 6

Style 5 requires special configuration, please consult with your sales representative for more information.

plug dimensions



IV plug color/color dot markings on plug(s)



PLUG COLOR

- [2 5] STANDARD COLOR: BLACK
- [3 6] RED
- [1 3] BLUE
- [X X] SPECIAL

COLOR DOT MARKINGS ON PLUG(S)

- [0 7] RED
- [0 2] BLUE
- [X X] SPECIAL

VI cable length

Refer to "connector configuration" in Section II.

CABLE LENGTH (L)

- [0 1] 10 cm (4 in.)
- [0 2] 20 cm (8 in.)
- [0 3] 30 cm (12 in.)
- [0 4] 40 cm (16 in.)
- [0 5] 50 cm (20 in.)
- [1 0] 100 cm (40 in.)
- [1 5] 150 cm (60 in.)
- [2 0] 200 cm (80 in.)
- [2 5] 250 cm (100 in.)

Note: Custom cable length available upon request, subject to minimum order requirements, pricing varies with length. Contact your sales representative for details.

VIII mini-DIN color

- [1] BLACK
- [2] GRAY
- [3] BLUE
- [4] RED

> ordering <

How to order— Using the chart below, determine your order number by finding the correct sequence of code numbers and /or letters as shown at right. Details on each parameter can be found within the brochure in the section with the corresponding roman numeral.

model	I	II	III	IV	V	VI	VII	VIII	IX
number of contacts									
connector configuration									
electrical configuration									
plug color									
color dot marking on plug(s)									
cable length									
cable color									
mini-DIN color									
special									
09P	X	X	XX	XX	XX	XX	X	X	XX

PARAMETER	YOUR CHOICE	GUIDELINES/NOTES
I number of contacts		3, 4 or 5
II connector configuration		
III electrical configuration		[00] Standard [XX] Custom Configuration
IV plug color		
V color dot marking on plug(s)		
VI cable length		
VII cable color		[1] Black [2] Gray
VIII mini-DIN color		
IX special		[S] Standard [XX] Special

Mouser Electronics

Authorized Distributor

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Knowles:

<u>009P-253159</u>	<u>009P-253888</u>	<u>009P-253160</u>	<u>009P-253889</u>	<u>009P-253220</u>	<u>009P-253150</u>	<u>009P-253131</u>	<u>009P-253152</u>
<u>009P-253254</u>	<u>009P-253149</u>	<u>009P-253255</u>	<u>009P-253101</u>	<u>009P-253132</u>	<u>009P-253219</u>	<u>009P-253097</u>	<u>009P-253226</u>
<u>009P-252476</u>	<u>009P-252477</u>	<u>009P-253098</u>	<u>009P-253744</u>	<u>009P-253998</u>	<u>009P-253462</u>	<u>009P-254011</u>	<u>009P-253353</u>
<u>009P-253606</u>	<u>009P-254014</u>	<u>009P-253578</u>	<u>009P-253805</u>	<u>009P-253956</u>	<u>009P-253566</u>	<u>009P-253857</u>	<u>009P-253642</u>
<u>009P-253804</u>	<u>009P-253605</u>	<u>009P-253745</u>	<u>009P-253610</u>	<u>009P-253919</u>	<u>009P-253748</u>	<u>009P-253746</u>	<u>009P-253644</u>
<u>009P-253641</u>	<u>009P-253747</u>	<u>009P-253643</u>	<u>009P-253567</u>				