

Brad[®] Nano-Change[®] M8 connectivity provides a rugged and space-saving solution to wire a wide range of sensors and actuators from proximity switches to rotary encoders in harsh environments.

Brad[®] Nano-Change[®] M8 Sensor/Actuator Connectivity



Ordering Information

Brad[®] Nano-Change[®] M8 Single-Ended Cordsets



| E02 PVC Cable | | | | | | | | | |
|---------------|--------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Poles | Length | Female Straight | | Female 90° | | Male Straight | | Male 90° | |
| | | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 3 | 1m | 403000E02M010 | 120027-0400 | 403001E02M010 | 120086-8293 | 403006E02M010 | 120027-0364 | 403007E02M010 | 120086-8323 |
| | 2m | 403000E02M020* | 120027-0066* | 403001E02M020* | 120027-0090* | 403006E02M020* | 120086-8228* | 403007E02M020* | 120027-0106* |
| | 5m | 403000E02M050* | 120027-0068* | 403001E02M050* | 120027-0092* | 403006E02M050* | 120027-0105* | 403007E02M050* | 120086-8324* |
| | 10m | 403000E02M100* | 120027-0070* | 403001E02M100* | 120027-0093* | 403006E02M100* | 120086-8307* | 403007E02M100* | 120086-8325* |
| 4 | 1m | 404000E02M010 | 120027-0549 | 404001E02M010 | 120086-8356 | 404006E02M010 | 120086-8161 | 404007E02M010 | 120086-8489 |
| | 2m | 404000E02M020* | 120027-0127* | 404001E02M020* | 120027-0152* | 404006E02M020* | 120086-8368* | 404007E02M020* | 120027-0483* |
| | 5m | 404000E02M050* | 120027-0129* | 404001E02M050* | 120027-0153* | 404006E02M050* | 120027-0376* | 404007E02M050* | 120086-8378* |
| | 10m | 404000E02M100* | 120027-0131* | 404001E02M100* | 120027-0154* | 404006E02M100* | 120086-8369* | 404007E02M100* | 120086-8379* |
| H08 PUR Cable | | | | | | | | | |
| 3 | 1m | 403000H08M010 | 120027-1409 | 403001H08M010 | 120086-8497 | 403006H08M010 | 120086-8496 | 403007H08M010 | 120086-8490 |
| | 2m | 403000H08M020 | 120086-8045 | 403001H08M020 | 120086-8052 | 403006H08M020 | 120086-8390 | 403007H08M020 | 120086-8393 |
| | 5m | 403000H08M050 | 120086-8101 | 403001H08M050 | 120086-8054 | 403006H08M050 | 120086-8078 | 403007H08M050 | 120086-8491 |
| | 10m | 403000H08M100 | 120086-8115 | 403001H08M100 | 120086-8004 | 403006H08M100 | 120086-8433 | 403007H08M100 | 120086-8492 |
| 4 | 1m | 404000H08M010 | 120086-8487 | 404001H08M010 | 120086-8055 | 404006H08M010 | 120086-8409 | 404007H08M010 | 120086-8493 |
| | 2m | 404000H08M020 | 120086-8207 | 404001H08M020 | 120027-1328 | 404006H08M020 | 120086-8392 | 404007H08M020 | 120086-8394 |
| | 5m | 404000H08M050 | 120086-8053 | 404001H08M050 | 120086-8211 | 404006H08M050 | 120086-8227 | 404007H08M050 | 120086-8494 |
| | 10m | 404000H08M100 | 120086-8117 | 404001H08M100 | 120086-8077 | 404006H08M100 | 120086-8488 | 404007H08M100 | 120086-8495 |

* Parts in bold belong to the BradExpress Program (see page 3)

Ordering Information

Brad® Nano-Change® M8 Double-Ended Cordsets



Brad® Nano-Change® M8 Sensor/Actuator Connectivity



| E02 PVC Cable | | | | | |
|---------------|--------|-------------------------|---------------------|---------------------------|---------------------|
| Poles | Length | Female to Male Straight | | Fem. 90° to Male Straight | |
| | | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 3 | .6m | 443030E02M006* | 120087-5035* | 443031E02M006* | 120087-5016* |
| | 1m | 443030E02M010* | 120087-8258* | 443031E02M010* | 120028-0016* |
| | 2m | 443030E02M020* | 120028-0321* | 443031E02M020* | 120087-8305* |
| | 5m | 443030E02M050* | 120028-0462* | 443031E02M050* | 120087-8308* |
| 4 | .6m | 444030E02M006* | 120087-8348* | 444031E02M006* | 120087-8364* |
| | 1m | 444030E02M010* | 120087-8349* | 444031E02M010* | 120087-8365* |
| | 2m | 444030E02M020* | 120087-8350* | 444031E02M020* | 120087-8366* |
| | 5m | 444030E02M050* | 120087-8354* | 444031E02M050* | 120087-8368* |
| H08 PUR Cable | | | | | |
| 4 | .6m | 443030H08M006 | 120087-8558 | 443031H08M006 | 120087-8557 |
| | 1m | 443030H08M010 | 120087-8500 | 443031H08M010 | 120087-8499 |
| | 2m | 443030H08M020 | 120087-8149 | 443031H08M020 | 120087-8128 |
| | 5m | 443030H08M050 | 120087-8127 | 443031H08M050 | 120087-8130 |
| 5 | .6m | 444030H08M006 | 120087-8559 | 444031H08M006 | 120087-8554 |
| | 1m | 444030H08M010 | 120087-8495 | 444031H08M010 | 120087-8196 |
| | 2m | 444030H08M020 | 120087-8356 | 444031H08M020 | 120087-8555 |
| | 5m | 444030H08M050 | 120087-8509 | 444031H08M050 | 120087-8556 |

Brad® Nano-Change® M8 Front Mount Receptacles



| Wires with PVC Jacket | | | | | |
|-----------------------|--------------|------------------------|---------------------|------------------------|---------------------|
| Poles | Mount Thread | Male | | Female | |
| | | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 3 | M8x0.5 | 4R3F06E02C3003* | 120031-0004* | 4R3F30E02C3003* | 120031-0015* |
| | M12x1 | 4R3F46E02C200* | 120090-5073* | 4R3L40E02C200* | 120090-5104* |
| 4 | M8x0.5 | 4R4F06E02C3003* | 120031-0006* | 4R4F30E02C3003* | 120031-0049* |
| | M12x1 | 4R4F46E02C200* | 120090-5078* | 4R4L40E02C200 | 120090-8037 |

* Parts in bold belong to the BradExpress Program (see page 3)

E02 PVC M8 Cable Specification

For use in packaging machines and production lines in static or less demanding environments.
 Conductors: 3x0,25 or 4x0,25mm² (Black, Brown, Blue, White)
 Jacket Material: Black PVC
 Voltage Rating: 300V, Max 4 Amps
 Operating Temperature: -30 to +80°C
 Diameter 3 pole 4,5^{-0,1+0,3} mm
 Diameter 4 pole 5,8^{-0,1+0,3} mm
 Approvals: UL, CSA

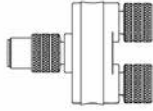
H08 PUR M8 Cable Specification

For use in machine tools, metal cutting production with harsh fluid, mechanical or continuous flex requirements.
 Conductors: 3x0,25 or 4x0,25mm² (Black, Brown, Blue, White)
 Jacket Material: Black PUR, halogen free, flame retardant
 Voltage Rating: 300V, Max 4 Amps
 Operating Temperature: -30 to +80°C
 Bending Cycles: 2 Mio with 10 x D (60°C)
 Diameter 3 pole 4,4^{±0,2} mm
 Diameter 4 pole 4,7^{±0,2} mm
 Approvals: UL, CSA

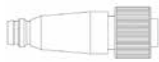
Ordering Information

Brad® Nano-Change® M8 Y-Splitters & Adapters

| Y-Splitter | | |
|------------|----------------------------|--------------------|
| | 1x M8 Male to 2x M8 Female | |
| Poles | Engineering No. | Standard Order No. |
| 4 | 080804LMF00000 | 120089-0033 |



| Adapter Connector | | |
|-------------------|-----------------------------|--------------------|
| | 1x M8 Male to 1x M12 Female | |
| Poles | Engineering No. | Standard Order No. |
| 3 | 853030 | 120017-0004 |
| 4 | 854030 | 120017-0003 |



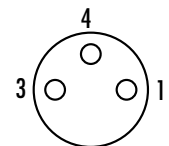
Note:

M8 male connector thread is fixed. To connect only with M8 female connectors.

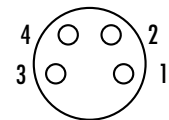
Brad® Nano-Change® M8 Sensor/Actuator Connectivity



Nano-Change® M8 Connector Pinout (front view)



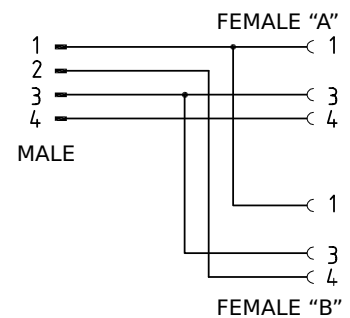
1 - Brown 4 - Black
3 - Blue



1 - Brown 3 - Blue
2 - White 4 - Black

Y-Splitter Wiring Schematic

M8 to M8 4 Pole



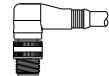
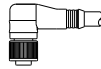
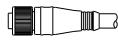
Brad® Micro-Change® M12 connectivity is a ready-to-use solution based on the A-Code M12 standard with IP67/68 rating to wire a wide range of sensors and actuators from proximity switches to rotary encoders in harsh environments.

Brad®
Micro-Change® M12
Sensor/Actuator
Connectivity



Ordering Information

Brad® Micro-Change® M12 Single-Ended Cordsets



| E03 PVC Cable | | | | | | | | | |
|---------------|--------|-----------------------|---------------------|-----------------------|---------------------|-----------------|--------------------|-----------------|--------------------|
| | | Female Straight | | Female 90° | | Male Straight | | Male 90° | |
| Poles | Length | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 3 | 1m | 803000E03M010 | 120065-8562 | 803001E03M010 | 120006-0175 | 803006E03M010 | 120065-8565 | 803007E03M010 | 120065-8567 |
| | 2m | 803000E03M020 | 120006-0001 | 803001E03M020 | 120006-0007 | 803006E03M020 | 120006-0240 | 803007E03M020 | 120006-0273 |
| | 5m | 803000E03M050 | 120006-0002 | 803001E03M050* | 120006-0008* | 803006E03M050 | 120006-0241 | 803007E03M050 | 120006-0275 |
| | 10m | 803000E03M100 | 120006-0003 | 803001E03M100 | 120006-0009 | 803006E03M100 | 120006-0242 | 803007E03M100 | 120065-8506 |
| 4 | 1m | 804000E03M010 | 120006-0426 | 804001E03M010 | 120006-0479 | 804006E03M010 | 120006-0559 | 804007E03M010 | 120006-0582 |
| | 2m | 804000E03M020* | 120006-0014* | 804001E03M020* | 120006-0021* | 804006E03M020 | 120006-0560 | 804007E03M020 | 120006-1975 |
| | 5m | 804000E03M050* | 120006-0015* | 804001E03M050* | 120006-0022* | 804006E03M050 | 120006-0562 | 804007E03M050 | 120006-0584 |
| | 10m | 804000E03M100* | 120006-0016* | 804001E03M100* | 120006-0023* | 804006E03M100 | 120006-0563 | 804007E03M100 | 120006-2238 |
| 5 | 1m | 805000E03M010 | 120006-3314 | 805001E03M010 | 120065-8573 | 805006E03M010 | 120006-2799 | 805007E03M010 | 120065-9138 |
| | 2m | 805000E03M020 | 120006-0634 | 805001E03M020 | 120006-0652 | 805006E03M020 | 120006-0667 | 805007E03M020 | 120065-8096 |
| | 5m | 805000E03M050* | 120065-1978* | 805001E03M050 | 120006-0654 | 805006E03M050 | 120006-1345 | 805007E03M050 | 120006-2929 |
| | 10m | 805000E03M100* | 120006-0638* | 805001E03M100 | 120006-0657 | 805006E03M100 | 120006-2209 | 805007E03M100 | 120006-2498 |
| H09 PUR Cable | | | | | | | | | |
| 3 | 1m | 803000H09M010 | 120065-8636 | 803001H09M010 | 120065-8713 | 803006H09M010 | 120065-8653 | 803007H09M010 | 120065-8720 |
| | 2m | 803000H09M020 | 120065-8175 | 803001H09M020 | 120065-8715 | 803006H09M020 | 120065-8655 | 803007H09M020 | 120065-8722 |
| | 5m | 803000H09M050 | 120065-8176 | 803001H09M050 | 120065-8718 | 803006H09M050 | 120065-8248 | 803007H09M050 | 120065-8725 |
| | 10m | 803000H09M100 | 120065-8177 | 803001H09M100 | 120065-8719 | 803006H09M100 | 120065-8247 | 803007H09M100 | 120065-8726 |
| 4 | 1m | 804000H09M010 | 120065-8640 | 804001H09M010 | 120065-8668 | 804006H09M010 | 120065-8727 | 804007H09M010 | 120065-8734 |
| | 2m | 804000H09M020 | 120065-8178 | 804001H09M020 | 120065-8513 | 804006H09M020 | 120065-8729 | 804007H09M020 | 120065-8736 |
| | 5m | 804000H09M050 | 120065-8179 | 804001H09M050 | 120065-8193 | 804006H09M050 | 120065-8732 | 804007H09M050 | 120065-8739 |
| | 10m | 804000H09M100 | 120065-8190 | 804001H09M100 | 120065-8194 | 804006H09M100 | 120065-8733 | 804007H09M100 | 120065-8740 |
| 5 | 1m | 805000H09M010 | 120065-8632 | 805001H09M010 | 120065-8664 | 805006H09M010 | 120065-8741 | 805007H09M010 | 120065-8748 |
| | 2m | 805000H09M020 | 120065-8172 | 805001H09M020 | 120065-8296 | 805006H09M020 | 120065-8743 | 805007H09M020 | 120065-8750 |
| | 5m | 805000H09M050 | 120065-8173 | 805001H09M050 | 120065-8297 | 805006H09M050 | 120065-8746 | 805007H09M050 | 120065-8753 |
| | 10m | 805000H09M100 | 120065-8174 | 805001H09M100 | 120065-8298 | 805006H09M100 | 120065-8747 | 805007H09M100 | 120065-8754 |

* Parts in bold belong to the BradExpress Program (see page 3)

Ordering Information

Brad® Micro-Change® M12 Double-Ended Cordsets



Brad® Micro-Change® M12 Sensor/Actuator Connectivity



| E03 PVC Cable | | | | | |
|---------------|--------|-----------------------|---------------------|---------------------------|--------------------|
| | | Fem. To Male Straight | | Fem. 90° To Male Straight | |
| Poles | Length | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 4 | 0.6m | 884030E03M006* | 120007-0472* | 884031E03M006 | 120007-0508 |
| | 1m | 884030E03M010 | 120007-0473 | 884031E03M010 | 120007-0509 |
| | 2m | 884030E03M020* | 120007-0474* | 884031E03M020 | 120007-0511 |
| | 3m | 884030E03M030 | 120007-0475 | 884031E03M030 | 120007-0512 |
| | 5m | 884030E03M050* | 120006-0049* | 884031E03M050 | 120007-0904 |
| | 10m | 884030E03M100 | 120007-0476 | 884031E03M100 | 120007-1278 |
| 5 | 0.6m | 885030E03M006 | 120066-8338 | 885031E03M006 | 120066-8339 |
| | 1m | 885030E03M010 | 120007-0906 | 885031E03M010 | 120066-8189 |
| | 2m | 885030E03M020 | 120007-0970 | 885031E03M020 | 120066-8278 |
| | 3m | 885030E03M030 | 120007-0586 | 885031E03M030 | 120066-8340 |
| | 5m | 885030E03M050 | 120007-0969 | 885031E03M050 | 120066-8279 |
| | 10m | 885030E03M100 | 120066-8347 | 885031E03M100 | 120066-8348 |
| H09 PUR Cable | | | | | |
| 4 | 0.6m | 884030H09M006 | 120066-8378 | 884031H09M006 | 120066-8669 |
| | 1m | 884030H09M010 | 120066-8379 | 884031H09M010 | 120066-8484 |
| | 2m | 884030H09M020 | 120066-8234 | 884031H09M020 | 120066-8212 |
| | 3m | 884030H09M030 | 120066-8174 | 884031H09M030 | 120066-8215 |
| | 5m | 884030H09M050 | 120066-8244 | 884031H09M050 | 120066-8670 |
| | 10m | 884030H09M100 | 120066-8381 | 884031H09M100 | 120066-8671 |
| 5 | 0.6m | 885030H09M006 | 120066-8509 | 885031H09M006 | 120066-8512 |
| | 1m | 885030H09M010 | 120066-8497 | 885031H09M010 | 120066-8496 |
| | 2m | 885030H09M020 | 120066-8500 | 885031H09M020 | 120066-8513 |
| | 3m | 885030H09M030 | 120066-8510 | 885031H09M030 | 120066-8514 |
| | 5m | 885030H09M050 | 120066-8501 | 885031H09M050 | 120066-8515 |
| | 10m | 885030H09M100 | 120066-8511 | 885031H09M100 | 120066-8516 |

E03 PVC M12 Cable Specification

For use in packaging machines and production lines, in static or less demanding environments.

Conductors: 3x0,34 4x0,34 or 5x0,34mm²

(Black, Brown, Blue, White, Grey)

Jacket Material: Black PVC

Voltage Rating: 300V, Max 4 Amps

Operating Temperature: -30 to +80°C

Diameter 3 pole 4,9^{-0,1+0,3} mm

Diameter 4 pole 5,4^{-0,1+0,3} mm

Diameter 5 pole 5,8^{-0,1+0,3} mm

Approvals: UL, CSA

H09 PUR M12 Cable Specification

For use in machine tools, metal cutting production with harsh fluid, mechanical or continuous flex requirements.

Conductors: 3x0,34 4x0,34 or 5x0,34mm²

(Black, Brown, Blue, White, Grey)

Jacket Material: Black PUR, halogen free, flame retardant

Voltage Rating: 300V, Max 4 Amps

Operating Temperature: -30 to +80°C

Bending Cycles: 2 Mio with 10 x D (60°C)

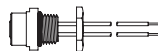
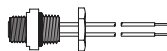
Diameter 3 pole 4,3^{±0,2} mm

Diameter 4 pole 4,7^{±0,2} mm

Diameter 5 pole 5,0^{±0,2} mm

Approvals: UL, CSA

Brad® Micro-Change® M12 Front Mount Receptacles



| Wires with PVC Jacket | | | | | |
|-----------------------|--------------|------------------------|---------------------|------------------------|---------------------|
| | | Male | | Female | |
| Poles | Mount Thread | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 4 | PG9 | 8R4J36E03C3003* | 120070-0156* | 8R4J30E03C3003* | 120070-0395* |
| | M14x1 | 8R4E36E03C3003 | 120011-0017 | 8R4E30E03C3003 | 120011-0013 |
| 5 | PG9 | 8R5J36E03C3003* | 120070-0231* | 8R5J30E03C3003* | 120070-0229* |
| | M14x1 | 8R5E36E03C3003 | 120011-0035 | 8R5E30E03C3003* | 120011-0033* |

* Parts in bold belong to the BradExpress Program (see page 3)

Ordering Information

Brad® Micro-Change® M12 Cordsets to M8 Sensors

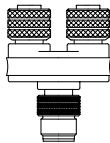


Brad® Micro-Change® M12 Sensor/Actuator Connectivity

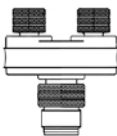


| E02 PVC Cable | | | | | |
|---------------|--------|---|--------------------|------------------------------------|--------------------|
| | | M12 Male Straight to M8 Female Straight | | M12 Male Straight to M8 Female 90° | |
| Poles | Length | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 3 | .6m | 483030E02M006 | 120087-8038 | 483031E02M006 | 120087-8421 |
| | 1m | 483030E02M010 | 120087-8406 | 483031E02M010 | 120087-8422 |
| | 2m | 483030E02M020 | 120087-8039 | 483031E02M020 | 120087-8167 |
| | 5m | 483030E02M050 | 120087-8409 | 483031E02M050 | 120087-8425 |
| 4 | .6m | 484030E02M006 | 120087-8461 | 484031E02M006 | 120087-8477 |
| | 1m | 484030E02M010 | 120087-8073 | 484031E02M010 | 120087-8478 |
| | 2m | 484030E02M020 | 120087-8463 | 484031E02M020 | 120087-8480 |
| | 5m | 484030E02M050 | 120087-8468 | 484031E02M050 | 120087-8483 |
| H08 PUR Cable | | | | | |
| 3 | .6m | 483030H08M006 | 120086-8221 | 483031H08M006 | 120087-8560 |
| | 1m | 483030H08M010 | 120087-8510 | 483031H08M010 | 120087-8513 |
| | 2m | 483030H08M020 | 120087-8255 | 483031H08M020 | 120087-8561 |
| | 5m | 483030H08M050 | 120087-8511 | 483031H08M050 | 120087-8514 |
| 4 | .6m | 484030H08M006 | 120087-8565 | 484031H08M006 | 120087-8562 |
| | 1m | 484030H08M010 | 120087-8516 | 484031H08M010 | 120087-8563 |
| | 2m | 484030H08M020 | 120087-8566 | 484031H08M020 | 120087-8564 |
| | 5m | 484030H08M050 | 120087-8567 | 484031H08M050 | 120087-8517 |

Brad® Micro-Change® M12 Y-Splitters & Adapters



| Y-Splitter | | |
|------------------------------|-----------------|--------------------|
| 1x M12 Male to 2x M12 Female | | |
| Poles | Engineering No. | Standard Order No. |
| 4 | 081204EMF00000 | 120068-0294 |
| 5 | 081205EMF00000 | 120068-0139 |



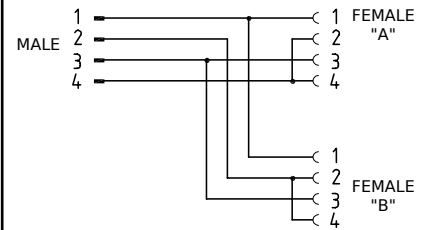
| Y-Splitter | | |
|-----------------------------|-----------------|--------------------|
| 1x M12 Male to 2x M8 Female | | |
| Poles | Engineering No. | Standard Order No. |
| 4 | 080804EMF00000 | 120089-0031 |



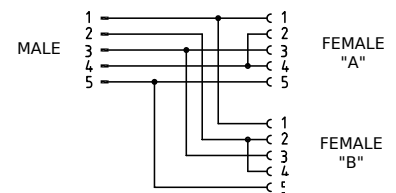
| Adapter Connector | | |
|-----------------------------|-----------------|--------------------|
| 1x M12 Male to 1x M8 Female | | |
| Poles | Engineering No. | Standard Order No. |
| 3 | 483030 | 120033-0002 |
| 4 | 484030 | 120033-0001 |

Y-Splitter Wiring Schematic

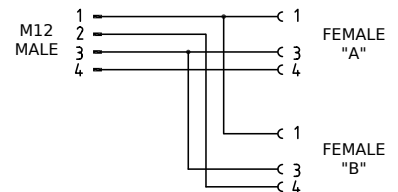
M12 to M12 4 Pole



M12 to M12 5 Pole

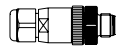


M12 to M8 4 Pole

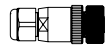


Ordering Information

Brad® Micro-Change® M12 Field Attachable Connectors



| | | Male Straight | | Male 90° | |
|-------|----------------|-----------------|--------------------|-----------------|--------------------|
| Poles | Max. Wire Size | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 4 | 3.3-6.6 | 8A4006-31 | 120071-0038 | 8A4007-31 | 120071-0040 |
| | 4.1-8.1 | 8A4006-32 | 120071-0039 | 8A4007-32 | 120071-5011 |
| 5 | 3.3-6.6 | 8A5006-31 | 120071-0045 | 8A5007-31 | 120071-0049 |
| | 4.1-8.1 | 8A5006-32 | 120071-0047 | 8A5007-32 | 120071-0071 |



| | | Female Straight | | Female 90° | |
|-------|----------------|-----------------|--------------------|-----------------|--------------------|
| Poles | Max. Wire Size | Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| 4 | 3.3-6.6 | 8A4000-31 | 120071-0035 | 8A4001-31 | 120071-0037 |
| | 4.1-8.1 | 8A4000-32 | 120071-0036 | 8A4001-32 | 120071-5010 |
| 5 | 3.3-6.6 | 8A5000-31 | 120071-0041 | 8A5001-31 | 120071-0044 |
| | 4.1-8.1 | 8A5000-32 | 120071-0043 | 8A5001-32 | 120071-0070 |

Brad® Micro-Change® M12 Closure Caps



Plastic Closure Cap

| To Cover Male | | To Cover Female | |
|-----------------|--------------------|-----------------|--------------------|
| Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| — | 120308-0680 | — | 120358-0030 |



Rubber Closure Cap with Leash

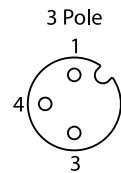
| To Cover Male | | To Cover Female | |
|-----------------|--------------------|-----------------|---------------------|
| Engineering No. | Standard Order No. | Engineering No. | Standard Order No. |
| — | 120076-5046 | — | 120076-5047* |

* Parts in bold belong to the BradExpress Program (see page 3)

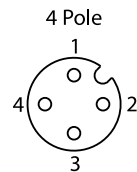
Brad® Micro-Change® M12 Sensor/Actuator Connectivity



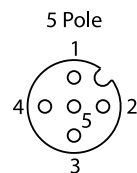
Micro-Change® M12 Connector Pinout



1 - Brown 4 - Black
3 - Blue



1 - Brown 3 - Blue
2 - White 4 - Black



1 - Brown 4 - Black
2 - White 5 - Gray
3 - Blue