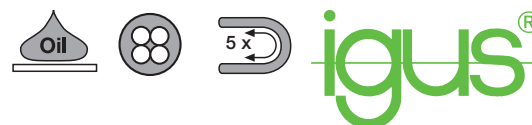


## CF-INI



## Chainflex® sensor/actuator cables with 5xd for Energy Chains®

### M12 connector, single end cordset

Plug-type connector  
Handle base  
Union nut/screw  
Contact base  
Contacts  
Seal

Coupling, M12 x 1  
Plastic, PP, black  
Metal, CuZn, nickel-plated  
Plastic, PP, black  
Metal, CuZn, gold-plated  
Plastic, FPM (Viton)

Number of poles 4-pole  
Ampacity 4 A  
Rated voltage of a winding max. 250 V

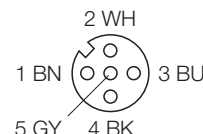
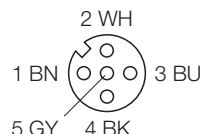
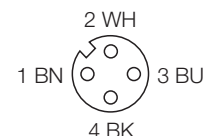
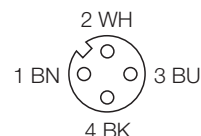
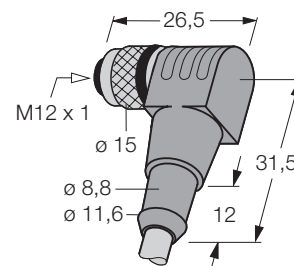
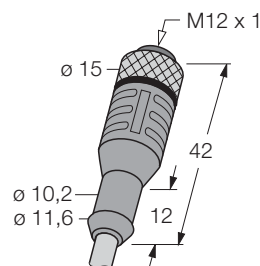
Number of poles 5-pole (4-pole + PE)  
Ampacity 4 A  
Rated voltage of a winding max. 60 V

Insulation resistance  $\geq 10^9$  Ohm  
Contact resistance  $\geq 5$  m Ohm

Ambient temperature of plug-type connector -40°F to +221°F  
(-40°C to +105 °C)  
Protection class IP69K, in screwed state  
Mechanical service life max. 100 insertion cycles

BG

BW



| CF9-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length |        | Connector<br>Type |
|-----------------------------------|-------------|-----------------|--------------|--------|-------------------|
|                                   |             |                 | ft.          | (m)    |                   |
| CF-INI-P4-M12-BG-3                | MAT9043700  | 4               | 9.84         | (3.0)  | BG                |
| CF-INI-P4-M12-BG-5                | MAT9043701  | 4               | 16.41        | (5.0)  | BG                |
| CF-INI-P4-M12-BG-7                | MAT9043702  | 4               | 22.97        | (7.0)  | BG                |
| CF-INI-P4-M12-BG-10               | MAT9043703  | 4               | 32.81        | (10.0) | BG                |
| CF-INI-P4-M12-BG-15               | MAT9049426  | 4               | 49.22        | (15.0) | BG                |
| CF9-03-05-INI* (5 x 0.34)         |             |                 |              |        |                   |
| CF-INI-P5-M12-BG-3                | MAT9043737  | 5               | 9.84         | (3.0)  | BG                |
| CF-INI-P5-M12-BG-5                | MAT9043738  | 5               | 16.41        | (5.0)  | BG                |
| CF-INI-P5-M12-BG-7                | MAT9043739  | 5               | 22.97        | (7.0)  | BG                |
| CF-INI-P5-M12-BG-10               | MAT9043740  | 5               | 32.81        | (10.0) | BG                |
| CF-INI-P5-M12-BG-15               | MAT90410077 | 5               | 49.22        | (15.0) | BG                |



| CF9-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length |        | Connector<br>Type |
|-----------------------------------|-------------|-----------------|--------------|--------|-------------------|
| CF-INI-P4-M12-BW-3                | MAT9043704  | 4               | 9.84         | (3.0)  | BW                |
| CF-INI-P4-M12-BW-5                | MAT9043705  | 4               | 16.41        | (5.0)  | BW                |
| CF-INI-P4-M12-BW-7                | MAT9043706  | 4               | 22.97        | (7.0)  | BW                |
| CF-INI-P4-M12-BW-10               | MAT9043707  | 4               | 32.81        | (10.0) | BW                |
| CF-INI-P4-M12-BW-15               | MAT9049430  | 4               | 49.22        | (15.0) | BW                |
| CF9-03-05-INI* (5 x 0.34)         |             |                 |              |        |                   |
| CF-INI-P5-M12-BW-3                | MAT9043742  | 5               | 9.84         | (3.0)  | BW                |
| CF-INI-P5-M12-BW-5                | MAT9043743  | 5               | 16.41        | (5.0)  | BW                |
| CF-INI-P5-M12-BW-7                | MAT9043744  | 5               | 22.97        | (7.0)  | BW                |
| CF-INI-P5-M12-BW-10               | MAT9043745  | 5               | 32.81        | (10.0) | BW                |
| CF-INI-P5-M12-BW-15               | MAT90410078 | 5               | 49.22        | (15.0) | BW                |

\*Refer to the CF9 page in the Control Cable section for more cable information

## M12 connector, single end cordset, LED

Plug-type connector  
Handle base  
Union nut/screw  
Contact base  
Contacts  
Seal

Coupling, M12 x 1  
Plastic, TPU, transparent  
Metal, CuZn, nickel-plated  
Plastic, PA6GF, transparent  
Metal, CuZn, gold-plated  
Plastic, FPM (Viton)

Number of poles  
Ampacity  
Rated voltage of a winding

4-pole  
4 A  
10...30 V

Insulation resistance  
Contact resistance

$\geq 10^9$  Ohm  
 $\geq 5$  m Ohm

Operating voltage display  
Switching state display  
Switching function

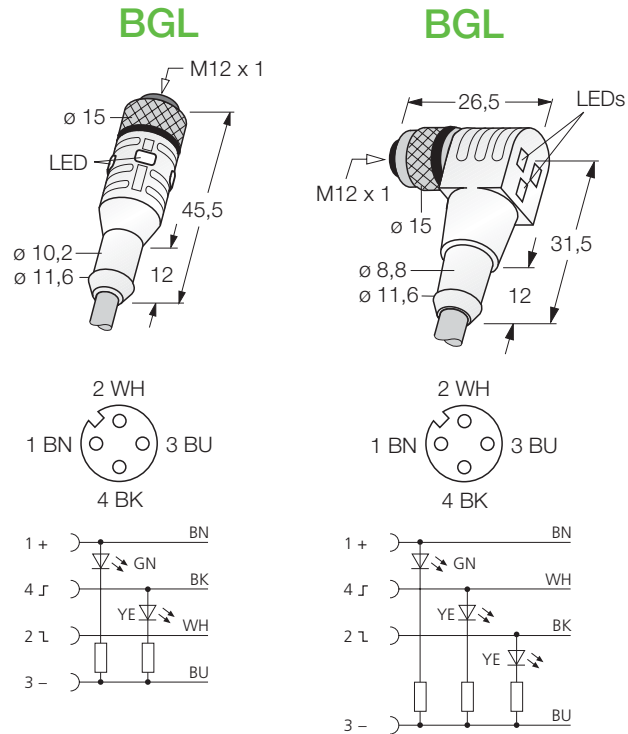
LED green  
LED yellow/yellow  
pnp

Ambient temperature of  
plug-type connector

-40°F to +221°F  
(-40°C to +105 °C)

Protection class  
Mechanical service life

IP66, in screwed state  
max. 100 Steckzyklen



| CF9-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |
|-----------------------------------|-------------|-----------------|-------------------------|-------------------|
| CF-INI-P4-M12-BGL2-3              | MAT9043708  | 4               | 9.84 (3.0)              | BGL               |
| CF-INI-P4-M12-BGL2-5              | MAT9043709  | 4               | 16.41 (5.0)             | BGL               |
| CF-INI-P4-M12-BGL2-7              | MAT9043710  | 4               | 22.97 (7.0)             | BGL               |
| CF-INI-P4-M12-BGL2-10             | MAT9043711  | 4               | 32.81 (10.0)            | BGL               |
| CF-INI-P4-M12-BGL2-15             | MAT90410087 | 4               | 49.22 (15.0)            | BGL               |



| CF9-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |
|-----------------------------------|-------------|-----------------|-------------------------|-------------------|
| CF-INI-P4-M12-BWL3-3              | MAT9043712  | 4               | 9.84 (3.0)              | BWL               |
| CF-INI-P4-M12-BWL3-5              | MAT9043713  | 4               | 16.41 (5.0)             | BWL               |
| CF-INI-P4-M12-BWL3-7              | MAT9043714  | 4               | 22.97 (7.0)             | BWL               |
| CF-INI-P4-M12-BWL3-10             | MAT9043715  | 4               | 32.81 (10.0)            | BWL               |
| CF-INI-P4-M12-BWL3-15             | MAT90410088 | 4               | 49.22 (15.0)            | BWL               |

\*Refer to the CF9 page in the Control Cable section for more cable information

## CF-INI

## Connection cable M12 x 1, connector on each end

Plug-type connector  
 Handle base  
 Union nut/screw  
 Contact base  
 Contacts  
 Seal

Coupling, M12 x 1  
 Plastic, PP, black  
 Metal, CuZn, nickel-plated  
 Plastic, PP, black  
 Metal, CuZn, gold-plated  
 Plastic, FPM (Viton)

Plug-type connector  
 Handle base  
 Union nut/screw  
 Contact base  
 Contacts

Connector, M12 x 1  
 Plastic, PP, black  
 Metal, CuZn, nickel-plated  
 Plastic, TPU, black  
 Metal, CuZn, gold-plated

Rated voltage of a winding 4-pole: max. 250 V

Ampacity  
 Insulation resistance  
 Contact resistance

5-pole (4-pole+PE): max. 60 V  
 4 A  
 $\geq 10^9$  Ohm  
 $\geq 5$  m Ohm

Ambient temperature of  
 plug-type connector

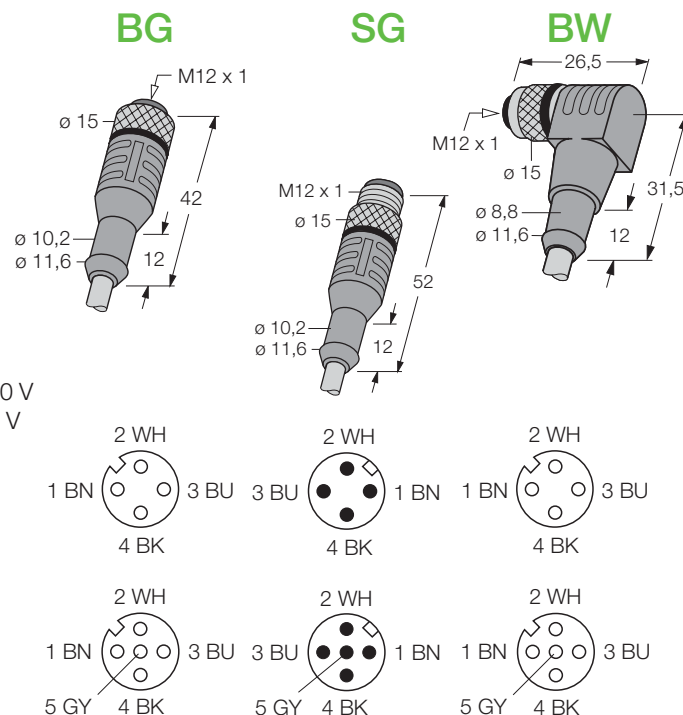
-40°F to +221°F  
 (-40°C to +105 °C)

Protection class

IP69K, in screwed state

Mechanical service life

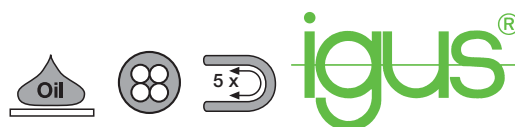
max. 100 insertion cycles



| CF9-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |    |
|-----------------------------------|-------------|-----------------|-------------------------|-------------------|----|
| CF-INI-P4-M12-BG / M12-SG-2       | MAT90410312 | 4               | 6.56 (2.0)              | BG                | SG |
| CF-INI-P4-M12-BG / M12-SG-5       | MAT90410313 | 4               | 16.41 (5.0)             | BG                | SG |
| CF-INI-P4-M12-BG / M12-SG-10      | MAT90410314 | 4               | 32.81 (10.0)            | BG                | SG |
| CF9-03-05-INI* (5 x 0.34)         |             |                 |                         |                   |    |
| CF-INI-P5-M12-BG / M12-SG-2       | MAT90410339 | 5               | 6.56 (2.0)              | BG                | SG |
| CF-INI-P5-M12-BG / M12-SG-5       | MAT90410340 | 5               | 16.41 (5.0)             | BG                | SG |
| CF-INI-P5-M12-BG / M12-SG-10      | MAT90410341 | 5               | 32.81 (10.0)            | BG                | SG |
| CF9-03-04-INI* (4 x 0.34)         |             |                 |                         |                   |    |
| CF-INI-P4-M12-BW / M12-SG-2       | MAT90410315 | 4               | 6.56 (2.0)              | BW                | SG |
| CF-INI-P4-M12-BW / M12-SG-5       | MAT90410316 | 4               | 16.41 (5.0)             | BW                | SG |
| CF-INI-P4-M12-BW / M12-SG-10      | MAT90410317 | 4               | 32.81 (10.0)            | BW                | SG |
| CF9-03-05-INI* (5 x 0.34)         |             |                 |                         |                   |    |
| CF-INI-P5-M12-BW / M12-SG-2       | MAT90410342 | 5               | 6.56 (2.0)              | BW                | SG |
| CF-INI-P5-M12-BW / M12-SG-5       | MAT90410343 | 5               | 16.41 (5.0)             | BW                | SG |
| CF-INI-P5-M12-BW / M12-SG-10      | MAT90410344 | 5               | 32.81 (10.0)            | BW                | SG |

\*Refer to the CF9 page in the Control Cable section for more cable information

# CF-INI



## Direct line M8 x 1, connector , single end cordset

|                     |                            |
|---------------------|----------------------------|
| Plug-type connector | Coupling, M8 x 1           |
| Handle base         | Plastic, PP, black         |
| Union nut/screw     | Metal, CuZn, nickel-plated |
| Contact base        | Plastic, PP, black         |
| Contacts            | Metal, CuZn, gold-plated   |
| Seal                | Plastic, FPM (Viton)       |

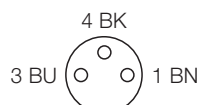
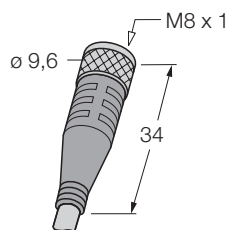
|                            |           |
|----------------------------|-----------|
| Number of poles            | 3-pole    |
| Ampacity                   | 4 A       |
| Rated voltage of a winding | max. 60 V |

|                            |           |
|----------------------------|-----------|
| Number of poles            | 4-pole    |
| Ampacity                   | 4 A       |
| Rated voltage of a winding | max. 30 V |

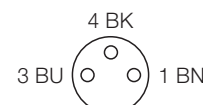
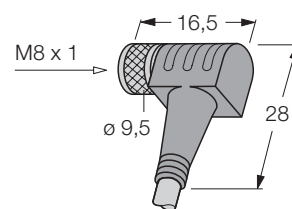
|                       |                       |
|-----------------------|-----------------------|
| Insulation resistance | ≥ 10 <sup>9</sup> Ohm |
| Contact resistance    | ≥ 5 m Ohm             |

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Ambient temperature of plug-type connector | -40°F to +221°F<br>(-40°C to +105 °C) |
| Protection class                           | IP69K, in screwed state               |
| Mechanical service life                    | max. 100 insertion cycles             |

BG



BW



CF-INI  
CF9



M8 Socket

Chainflex®  
Sensor Cables

Telephone 1-800-521-2747  
Fax 1-401-438-7270

PDF: [www.igus.com/pdf/chainflex.asp](http://www.igus.com/pdf/chainflex.asp)  
Specs/CAD/Samples/Size Selector/RFQ:  
[www.igus.com/chainflex.asp](http://www.igus.com/chainflex.asp)

10.155

| CF9-02-03-INI* (3 x 0.25) | Part No.   | Number Poles | Cable length ft. | (m)    | Connector Type |
|---------------------------|------------|--------------|------------------|--------|----------------|
| CF-INI-P3-M8-BG-3         | MAT9043716 | 3            | 9.84             | (3.0)  | BG             |
| CF-INI-P3-M8-BG-5         | MAT9043717 | 3            | 16.41            | (5.0)  | BG             |
| CF-INI-P3-M8-BG-7         | MAT9043718 | 3            | 22.97            | (7.0)  | BG             |
| CF-INI-P3-M8-BG-10        | MAT9043719 | 3            | 32.81            | (10.0) | BG             |
| CF-INI-P3-M8-BG-15        | MAT9049416 | 3            | 49.22            | (15.0) | BG             |
| CF9-03-04-INI* (4 x 0.34) |            |              |                  |        |                |
| CF-INI-P4-M8-BG-3         | MAT9043728 | 4            | 9.84             | (3.0)  | BG             |
| CF-INI-P4-M8-BG-5         | MAT9043729 | 4            | 16.41            | (5.0)  | BG             |
| CF-INI-P4-M8-BG-7         | MAT9043730 | 4            | 22.97            | (7.0)  | BG             |
| CF-INI-P4-M8-BG-10        | MAT9043731 | 4            | 32.81            | (10.0) | BG             |
| CF-INI-P4-M8-BG-15        | MAT9049466 | 4            | 49.22            | (15.0) | BG             |

|                           |            |   |       |        |    |
|---------------------------|------------|---|-------|--------|----|
| CF9-02-03-INI* (3 x 0.25) |            |   |       |        |    |
| CF-INI-P3-M8-BW-3         | MAT9043724 | 3 | 9.84  | (3.0)  | BW |
| CF-INI-P3-M8-BW-5         | MAT9043725 | 3 | 16.41 | (5.0)  | BW |
| CF-INI-P3-M8-BW-7         | MAT9043726 | 3 | 22.97 | (7.0)  | BW |
| CF-INI-P3-M8-BW-10        | MAT9043727 | 3 | 32.81 | (10.0) | BW |
| CF-INI-P3-M8-BW-15        | MAT9049419 | 3 | 49.22 | (15.0) | BW |
| CF9-03-04-INI* (4 x 0.34) |            |   |       |        |    |
| CF-INI-P4-M8-BW-3         | MAT9043732 | 4 | 9.84  | (3.0)  | BW |
| CF-INI-P4-M8-BW-5         | MAT9043733 | 4 | 16.41 | (5.0)  | BW |
| CF-INI-P4-M8-BW-7         | MAT9043734 | 4 | 22.97 | (7.0)  | BW |
| CF-INI-P4-M8-BW-10        | MAT9043735 | 4 | 32.81 | (10.0) | BW |
| CF-INI-P4-M8-BW-15        | MAT9049467 | 4 | 49.22 | (15.0) | BW |

\*Refer to the CF9 page in the Control Cable section for more cable information

## CF-INI

## Direct line M8 x 1 connector, single end cordset, LED

|                     |                            |
|---------------------|----------------------------|
| Plug-type connector | Coupling, M8 x 1           |
| Handle base         | Plastic, TPU, transparent  |
| Union nut/screw     | Metal, CuZn, nickel-plated |
| Contact base        | Plastic, PA6GF, black      |
| Contacts            | Metal, CuZn, gold-plated   |
| Seal                | Plastic, FPM (Viton)       |

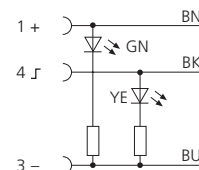
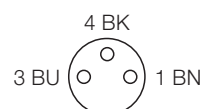
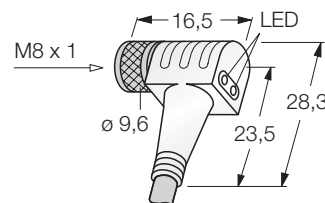
|                            |           |
|----------------------------|-----------|
| Number of poles            | 3-pole    |
| Ampacity                   | 4 A       |
| Rated voltage of a winding | 10...30 V |

|                       |                 |
|-----------------------|-----------------|
| Insulation resistance | $\geq 10^9$ Ohm |
| Contact resistance    | $\geq 5$ m Ohm  |

|                           |            |
|---------------------------|------------|
| Operating voltage display | LED green  |
| Switching state display   | LED yellow |
| Switching function        | pnp        |

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Ambient temperature of plug-type connector | -40°F to +221°F<br>(-40 °C to +105 °C) |
| Protection class                           | IP66K, in screwed state                |
| Mechanical service life                    | max. 100 insertion cycles              |

## BWL



| CF9-02-03-INI* (3 x 0.25)<br>Type | Part No.    | Number<br>Poles | Cable length |        | Connector<br>Type |
|-----------------------------------|-------------|-----------------|--------------|--------|-------------------|
|                                   |             |                 | ft.          | (m)    |                   |
| CF-INI-P3-M8-BWL2-3               | MAT9043720  | 3               | 9.84         | (3.0)  | BWL               |
| CF-INI-P3-M8-BWL2-5               | MAT9043721  | 3               | 16.41        | (5.0)  | BWL               |
| CF-INI-P3-M8-BWL2-7               | MAT9043722  | 3               | 22.97        | (7.0)  | BWL               |
| CF-INI-P3-M8-BWL2-10              | MAT9043723  | 3               | 32.81        | (10.0) | BWL               |
| CF-INI-P3-M8-BWL2-15              | MAT90410196 | 3               | 49.22        | (15.0) | BWL               |

\*Refer to the CF9 page in the Control Cable section for more cable information



## Connection cable M8 x 1, connector on each end

Plug-type connector  
Handle base  
Union nut/screw  
Contact base  
Contacts  
Seal

Coupling, M8 x 1  
Plastic, PP, black  
Metal, CuZn, nickel-plated  
Plastic, PP, black  
Metal, CuZn, gold-plated  
Plastic, FPM (Viton)

Plug-type connector  
Handle base  
Union nut/screw  
Contact base  
Contacts

Connector, M8 x 1  
Plastic, PP, black  
Metal, CuZn, nickel-plated  
Plastic, PP, black  
Metal, CuZn, gold-plated

Rated voltage of a winding 3-pole: max. 60 V  
4-pole: max. 30 V

Ampacity 4 A

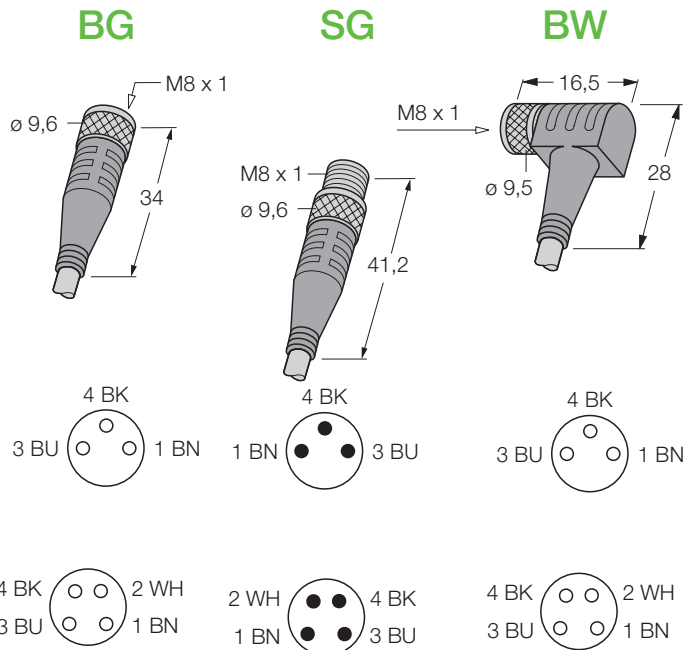
Insulation resistance  $\geq 10^9$  Ohm

Contact resistance  $\geq 5$  m Ohm

Ambient temperature of plug-type connector -40°F to +221°F  
(-40°C to +105 °C)

Protection class IP69K, in screwed state

Mechanical service life max. 100 insertion cycles



| CF9-02-03-INI* (3 x 0.25)  | Part No.    | Number Poles | Cable length ft. | (m)    | Connector Type |    |
|----------------------------|-------------|--------------|------------------|--------|----------------|----|
| Type                       |             |              |                  |        |                |    |
| CF-INI-P3-M8-BG / M8-SG-2  | MAT90410324 | 3            | 6.56             | (2.0)  | BG             | SG |
| CF-INI-P3-M8-BG / M8-SG-5  | MAT90410325 | 3            | 49.22            | (15.0) | BG             | SG |
| CF-INI-P3-M8-BG / M8-SG-10 | MAT90410326 | 3            | 32.81            | (10.0) | BG             | SG |
| CF9-03-04-INI* (4 x 0.34)  |             |              |                  |        |                |    |
| CF-INI-P4-M8-BG / M8-SG-2  | MAT90410333 | 4            | 6.56             | (2.0)  | BG             | SG |
| CF-INI-P4-M8-BG / M8-SG-5  | MAT90410334 | 4            | 49.22            | (15.0) | BG             | SG |
| CF-INI-P4-M8-BG / M8-SG-10 | MAT90410335 | 4            | 32.81            | (10.0) | BG             | SG |
| CF9-02-03-INI* (3 x 0.25)  |             |              |                  |        |                |    |
| CF-INI-P3-M8-BW / M8-SG-2  | MAT90410330 | 3            | 6.56             | (2.0)  | BW             | SG |
| CF-INI-P3-M8-BW / M8-SG-5  | MAT90410331 | 3            | 49.22            | (15.0) | BW             | SG |
| CF-INI-P3-M8-BW / M8-SG-10 | MAT90410332 | 3            | 32.81            | (10.0) | BW             | SG |
| CF9-03-04-INI* (4 x 0.34)  |             |              |                  |        |                |    |
| CF-INI-P4-M8-BW / M8-SG-2  | MAT90410336 | 4            | 6.56             | (2.0)  | BW             | SG |
| CF-INI-P4-M8-BW / M8-SG-5  | MAT90410337 | 4            | 49.22            | (15.0) | BW             | SG |
| CF-INI-P4-M8-BW / M8-SG-10 | MAT90410338 | 4            | 32.81            | (10.0) | BW             | SG |

\*Refer to the CF9 page in the Control Cable section for more cable information

Chainflex®  
Sensor Cables

Telephone 1-800-521-2747  
Fax 1-401-438-7270

PDF: [www.igus.com/pdf/chainflex.asp](http://www.igus.com/pdf/chainflex.asp)  
Specs/CAD/Samples/Size Selector/RFQ:  
[www.igus.com/chainflex.asp](http://www.igus.com/chainflex.asp)

## CF-INI

## Direct line M12 x 1 connector, single end cordset

Plug-type connector  
 Handle base  
 Union nut/screw  
 Contact base  
 Contacts  
 Seal

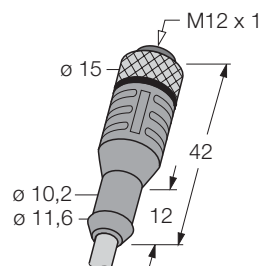
Coupling, M12 x 1  
 Plastic, PP, black  
 Metal, CuZn, nickel-plated  
 Plastic, PP, black  
 Metal, CuZn, gold-plated  
 Plastic, FPM (Viton)

Number of poles 4-pole  
 Ampacity 4 A  
 Rated voltage of a winding max. 250 V

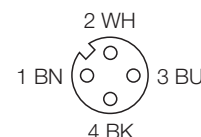
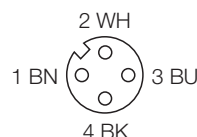
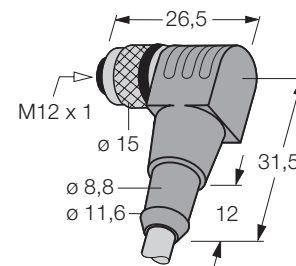
Insulation resistance  $\geq 10^9$  Ohm  
 Contact resistance  $\geq 5$  m Ohm

Ambient temperature of plug-type connector -40°F to +221°F  
 (-40°C to +105 °C)  
 Protection class IP69K, in screwed state  
 Mechanical service life max. 100 insertion cycles

BG



BW



| CF98-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length |        | Connector<br>Type |
|------------------------------------|-------------|-----------------|--------------|--------|-------------------|
|                                    |             |                 | ft.          | (m)    |                   |
| CF98.INI-P4-M12-BG-3               | MAT90410235 | 4               | 9.84         | (3.0)  | BG                |
| CF98.INI-P4-M12-BG-5               | MAT90410236 | 4               | 16.41        | (5.0)  | BG                |
| CF98.INI-P4-M12-BG-7               | MAT90410237 | 4               | 22.97        | (7.0)  | BG                |
| CF98.INI-P4-M12-BG-10              | MAT90410238 | 4               | 32.81        | (10.0) | BG                |
| CF98.INI-P4-M12-BG-15              | MAT90410239 | 4               | 49.22        | (15.0) | BG                |



| CF98-03-04-INI* (4 x 0.34) |             |   |       |        |    |
|----------------------------|-------------|---|-------|--------|----|
| CF98.INI-P4-M12-BW-3       | MAT90410240 | 4 | 9.84  | (3.0)  | BW |
| CF98.INI-P4-M12-BW-5       | MAT90410241 | 4 | 16.41 | (5.0)  | BW |
| CF98.INI-P4-M12-BW-7       | MAT90410242 | 4 | 22.97 | (7.0)  | BW |
| CF98.INI-P4-M12-BW-10      | MAT90410243 | 4 | 32.81 | (10.0) | BW |
| CF98.INI-P4-M12-BW-15      | MAT90410244 | 4 | 49.22 | (15.0) | BW |

\*Refer to the CF98 page in the Control Cable section for more cable information

# CF-INI



CF-INI  
CF98



M12 Socket

## Connection cable M12 x 1, connector on each end

Plug-type connector  
Handle base  
Union nut/screw  
Contact base  
Contacts  
Seal

Coupling, M12 x 1  
Plastic, PP, black  
Metal, CuZn, nickel-plated  
Plastic, TPU, black  
Metal, CuZn, gold-plated  
Plastic, FPM (Viton)

Plug-type connector  
Handle base  
Union nut/screw  
Contact base  
Contacts

Connector, M12x1  
Plastic, PP, black  
Metal, CuZn, nickel-plated  
Plastic, TPU, black  
Metal, CuZn, gold-plated

Rated voltage of a winding  
Ampacity  
Insulation resistance  
Contact resistance

4-pole: max. 250V  
4A  
≥ 10<sup>9</sup> Ohm  
≥ 5m Ohm

Ambient temperature of  
plug-type connector

-40°F to +221°F  
(-40 °C to +105 °C)

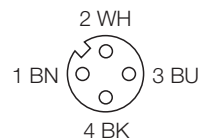
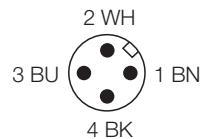
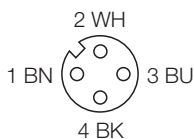
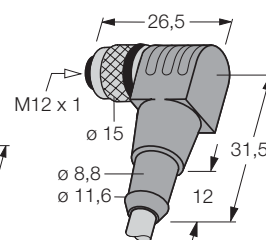
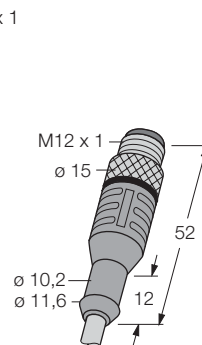
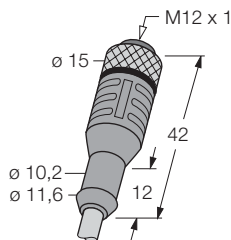
Protection class  
Mechanical service life

IP69K, in screwed state  
max. 100 Steckzyklen

BG

SG

BW



| CF98-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |
|------------------------------------|-------------|-----------------|-------------------------|-------------------|
| CF98.INI-P4-M12-BG / M12-SG-2      | MAT90410300 | 4               | 6.56 (2.0)              | BG SG             |
| CF98.INI-P4-M12-BG / M12-SG-5      | MAT90410301 | 4               | 16.41 (5.0)             | BG SG             |
| CF98.INI-P4-M12-BG / M12-SG-10     | MAT90410302 | 4               | 32.81 (10.0)            | BG SG             |



| CF98-03-04-INI* (4 x 0.34)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |
|------------------------------------|-------------|-----------------|-------------------------|-------------------|
| CF98.INI-P4-M12-BW / M12-SG-2      | MAT90410303 | 4               | 6.56 (2.0)              | BW SG             |
| CF98.INI-P4-M12-BW / M12-SG-5      | MAT90410304 | 4               | 16.41 (5.0)             | BW SG             |
| CF98.INI-P4-M12-BW / M12-SG-10     | MAT90410305 | 4               | 32.81 (10.0)            | BW SG             |

\*Refer to the CF98 page in the Control Cable section for more cable information

Chainflex®  
Sensor cables

Telephone 1-800-521-2747  
Fax 1-401-438-7270

PDF: [www.igus.com/pdf/chainflex.asp](http://www.igus.com/pdf/chainflex.asp)  
Specs/CAD/Samples/Size Selector/RFQ:  
[www.igus.com/chainflex.asp](http://www.igus.com/chainflex.asp)

## CF-INI

## Direct line M8 x 1 connector, single end cordset

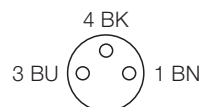
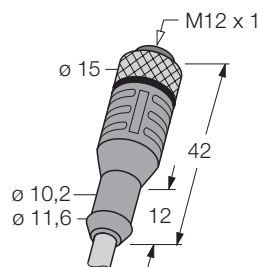
|                     |                            |
|---------------------|----------------------------|
| Plug-type connector | Coupling, M8 x 1           |
| Handle base         | Plastic, PP, black         |
| Union nut/screw     | Metal, CuZn, nickel-plated |
| Contact base        | Plastic, PP, black         |
| Contacts            | Metal, CuZn, gold-plated   |
| Seal                | Plastic, FPM (Viton)       |

|                            |           |
|----------------------------|-----------|
| Number of poles            | 3-pole    |
| Ampacity                   | 4 A       |
| Rated voltage of a winding | max. 60 V |

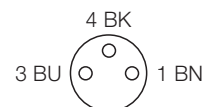
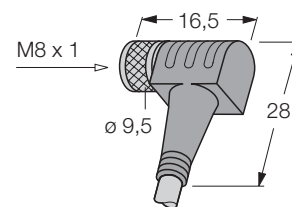
|                       |                 |
|-----------------------|-----------------|
| Insulation resistance | $\geq 10^9$ Ohm |
| Contact resistance    | $\geq 5$ m Ohm  |

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Ambient temperature of plug-type connector | -40°F to +221°F<br>(-40°C to +105 °C) |
| Protection class                           | IP69K, in screwed state               |
| Mechanical service life                    | max. 100 insertion cycles             |

BG



BW



| CF98-02-03-INI* (3 x 0.25)<br>Type | Part No.    | Number<br>Poles | Cable length |        | Connector<br>Type |
|------------------------------------|-------------|-----------------|--------------|--------|-------------------|
|                                    |             |                 | ft.          | (m)    |                   |
| CF98.INI-P3-M8-BG-3                | MAT90410245 | 3               | 9.84         | (3.0)  | BG                |
| CF98.INI-P3-M8-BG-5                | MAT90410246 | 3               | 16.41        | (5.0)  | BG                |
| CF98.INI-P3-M8-BG-7                | MAT90410247 | 3               | 22.97        | (7.0)  | BG                |
| CF98.INI-P3-M8-BG-10               | MAT90410248 | 3               | 32.81        | (10.0) | BG                |
| CF98.INI-P3-M8-BG-15               | MAT90410249 | 3               | 49.22        | (15.0) | BG                |

\*Refer to the CF98 page in the Control Cable section for more cable information



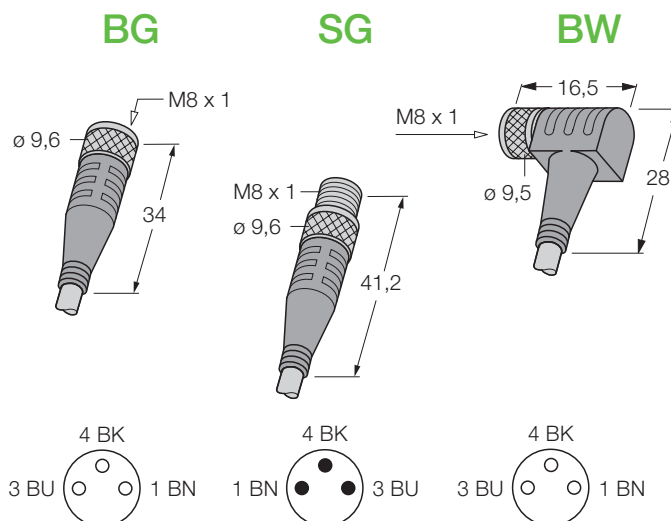
| CF98-02-03-INI* (3 x 0.25) |             |   |       |        |    |
|----------------------------|-------------|---|-------|--------|----|
| CF98.INI-P3-M8-BW-3        | MAT90410250 | 3 | 9.84  | (3.0)  | BW |
| CF98.INI-P3-M8-BW-5        | MAT90410251 | 3 | 16.41 | (5.0)  | BW |
| CF98.INI-P3-M8-BW-7        | MAT90410252 | 3 | 22.97 | (7.0)  | BW |
| CF98.INI-P3-M8-BW-10       | MAT90410253 | 3 | 32.81 | (10.0) | BW |
| CF98.INI-P3-M8-BW-15       | MAT90410254 | 3 | 49.22 | (15.0) | BW |

# CF-INI

## Connection cable M8 x 1, connector on each end

|                     |                            |
|---------------------|----------------------------|
| Plug-type connector | Coupling, M8 x 1           |
| Handle base         | Plastic, PP, black         |
| Union nut/screw     | Metal, CuZn, nickel-plated |
| Contact base        | Plastic, TPU, black        |
| Contacts            | Metal, CuZn, gold-plated   |
| Seal                | Plastic, FPM (Viton)       |
| Plug-type connector | Connector, M8 x 1          |
| Handle base         | Plastic, PP, black         |
| Union nut/screw     | Metal, CuZn, nickel-plated |
| Contact base        | Plastic, PP, black         |
| Contacts            | Metal, CuZn, gold-plated   |

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Rated voltage of a winding                 | 3-pole: max. 60 V                      |
| Ampacity                                   | 4A                                     |
| Insulation resistance                      | $\geq 10^9$ Ohm                        |
| Contact resistance                         | $\geq 5$ m Ohm                         |
| Ambient temperature of plug-type connector | -40°F to +221°F<br>(-40 °C to +105 °C) |
| Protection class                           | IP69K, in screwed state                |
| Mechanical service life                    | max. 100 insertion cycles              |

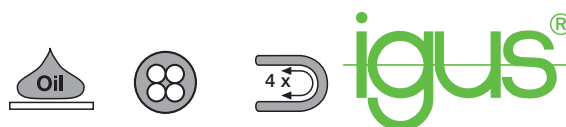


| CF98-02-03-INI* (3 x 0.25)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |
|------------------------------------|-------------|-----------------|-------------------------|-------------------|
| CF98.INI-P3-M8-BG / M8-SG-2        | MAT90410306 | 3               | 6.56 (2.0)              | BG SG             |
| CF98.INI-P3-M8-BG / M8-SG-5        | MAT90410307 | 3               | 16.41 (5.0)             | BG SG             |
| CF98.INI-P3-M8-BG / M8-SG-10       | MAT90410308 | 3               | 32.81 (10.0)            | BG SG             |

\*Refer to the CF98 page in the Control Cable section for more cable information



| CF98-02-03-INI* (3 x 0.25)<br>Type | Part No.    | Number<br>Poles | Cable length<br>ft. (m) | Connector<br>Type |
|------------------------------------|-------------|-----------------|-------------------------|-------------------|
| CF98.INI-P3-M8-BW / M8-SG-2        | MAT90410309 | 3               | 6.56 (2.0)              | BW SG             |
| CF98.INI-P3-M8-BW / M8-SG-5        | MAT90410310 | 3               | 16.41 (5.0)             | BW SG             |
| CF98.INI-P3-M8-BW / M8-SG-10       | MAT90410311 | 3               | 32.81 (10.0)            | BW SG             |



CF-INI  
CF98



M8 Socket

Chainflex®  
Sensor Cables

Telephone 1-800-521-2747  
Fax 1-401-438-7270

PDF: [www.igus.com/pdf/chainflex.asp](http://www.igus.com/pdf/chainflex.asp)  
Specs/CAD/Samples/Size Selector/RFQ:  
[www.igus.com/chainflex.asp](http://www.igus.com/chainflex.asp)