

7/8" Series Circular Automation Connectors provide rugged and field-proven performance. They are available in a **self-terminating variant** with a screw terminal connection or as **pre-assembled cable connectors** with straight or right angled options.

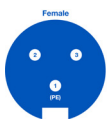
These connectors can be used in Automotive Industry, Construction, Agriculture, Marine, Mining, Forestry, and Recreational.



Key features:

- ⊞ Available with 3, 4 & 5 Contacts
- ⊞ Wire Gauge 16-20 AWG
- ⊞ High degree of environmental protection - IP67 rated
- ⊞ Available in Right-Angle, Flex Body and Front Panel Mount
- ⊞ Secure & reliable screw-locking mechanism
- ⊞ Insulation resistance 100 megohms minimum
- ⊞ Accepts contact size 1.3 mm (up to 17 amps gold, up to 8 amps tin)
- ⊞ Operating at temperatures -25°C to +85°C
- ⊞ Voltage: 300V
- ⊞ Robust PUR over-moulded cables

7/8" Series coding options: (Full Contact Diagrams Page 66)



A-Coding



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800-235-7880



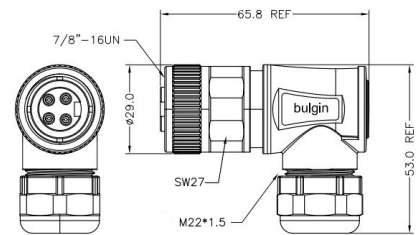
bulgininfo@powell.com

7/8" Right-Angled Female Connector



PXPTPU78RAF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Cable entry: 6 - 12mm
- Mates with Flex Body and Panel Mount connectors



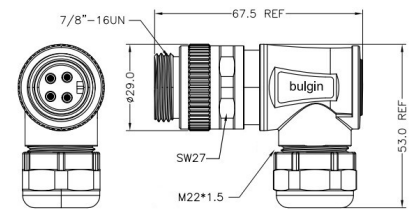
Part Number	Contacts	Code	Termination
PXPTPU78RAF03ASTM22	03	A	Screw
PXPTPU78RAF04ASTM22	04	A	Screw
PXPTPU78RAF05ASTM22	05	A	Screw

7/8" Right-Angled Male Connector



PXPTPU78RAM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Cable entry: 6 - 12mm
- Mates with Flex Body and Panel Mount connectors



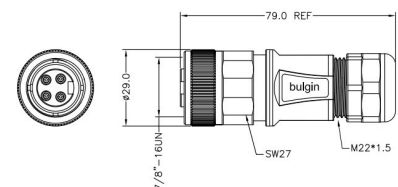
Part Number	Contacts	Code	Termination
PXPTPU78RAM03ASTM22	03	A	Screw
PXPTPU78RAM04ASTM22	04	A	Screw
PXPTPU78RAM05ASTM22	05	A	Screw

7/8" Flex Body Female Connector



PXPTPU78FBF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Cable entry: 6 - 12mm
- Mates with Right Angled and Panel Mount connectors



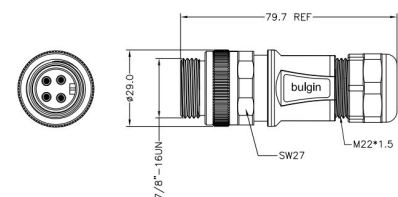
Part Number	Contacts	Code	Termination
PXPTPU78FBF03ASTM22	03	A	Screw
PXPTPU78FBF04ASTM22	04	A	Screw
PXPTPU78FBF05ASTM22	05	A	Screw

7/8" Flex Body Male Connector



PXPTPU78FIM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Cable entry: 6 - 12mm
- Mates with Right Angled and Panel Mount connectors



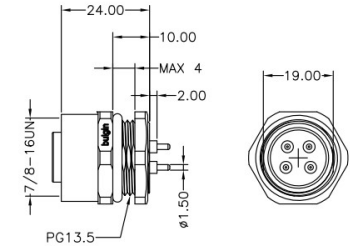
Part Number	Contacts	Code	Termination
PXPTPU78FIM03ASTM22	03	A	Screw
PXPTPU78FIM04ASTM22	04	A	Screw
PXPTPU78FIM05ASTM22	05	A	Screw

7/8" Front Panel Mounting Female Connector



PXMBNI78FPF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Mates with Right Angled and Flex body connectors



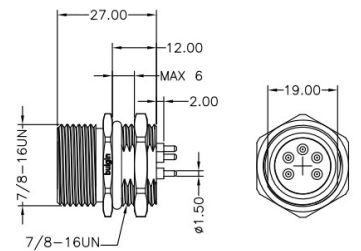
Part Number	Contacts	Code	Termination
PXMBNI78FPF03APCPG135	03	A	PCB
PXMBNI78FPF04APCPG135	04	A	PCB
PXMBNI78FPF05APCPG135	05	A	PCB

7/8" Front Panel Mounting Male Connector



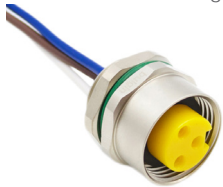
PXMBNI78FPM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Mates with Right Angled and Flex body connectors



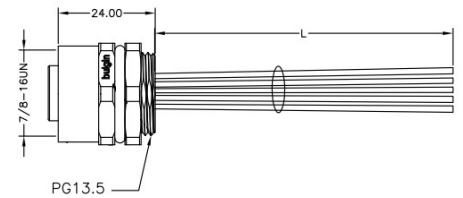
Part Number	Contacts	Code	Termination
PXMBNI78FPM03APC78	03	A	PCB
PXMBNI78FPM04APC78	04	A	PCB
PXMBNI78FPM05APC78	05	A	PCB

7/8" Front Panel Mounting Female Flying Leads



PXMBNI78FPF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Available in 0.1m, 0.2m & 0.5m cable
- Mates with Right Angled and Flex body connectors



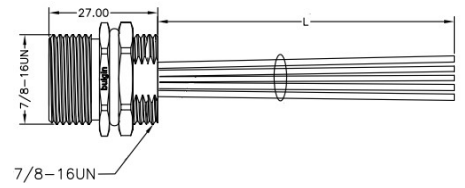
Part Number	Contacts	Code	Termination	Lead Length	Mounting Nut
PXMBNI78FPF03AFLPG135001	03	A	Flying Leads	0.1m	PG13.5
PXMBNI78FPF04AFLPG135001	04	A	Flying Leads	0.1m	PG13.5
PXMBNI78FPF05AFLPG135001	05	A	Flying Leads	0.1m	PG13.5
PXMBNI78FPF03AFLPG135002	03	A	Flying Leads	0.2m	PG13.5
PXMBNI78FPF04AFLPG135002	04	A	Flying Leads	0.2m	PG13.5
PXMBNI78FPF05AFLPG135002	05	A	Flying Leads	0.2m	PG13.5
PXMBNI78FPF03AFLPG135005	03	A	Flying Leads	0.5m	PG13.5
PXMBNI78FPF04AFLPG135005	04	A	Flying Leads	0.5m	PG13.5
PXMBNI78FPF05AFLPG135005	05	A	Flying Leads	0.5m	PG13.5

7/8" Front Panel Mounting Male Flying Leads



PXMBNI78FPM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Available in 0.1m, 0.2m & 0.5m cable
- Mates with Right Angled and Flex body connectors



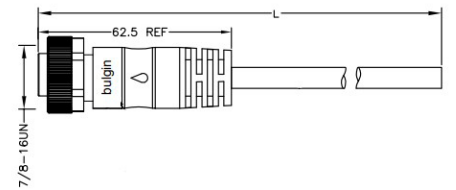
Part Number	Contacts	Code	Termination	Lead Length	Mounting Nut
PXMBNI78FPM03AFL78001	03	A	Flying Leads	0.1m	7/8"
PXMBNI78FPM04AFL78001	04	A	Flying Leads	0.1m	7/8"
PXMBNI78FPM05AFL78001	05	A	Flying Leads	0.1m	7/8"
PXMBNI78FPM03AFL78002	03	A	Flying Leads	0.2m	7/8"
PXMBNI78FPM04AFL78002	04	A	Flying Leads	0.2m	7/8"
PXMBNI78FPM05AFL78002	05	A	Flying Leads	0.2m	7/8"
PXMBNI78FPM03AFL78005	03	A	Flying Leads	0.5m	7/8"
PXMBNI78FPM04AFL78005	04	A	Flying Leads	0.5m	7/8"
PXMBNI78FPM05AFL78005	05	A	Flying Leads	0.5m	7/8"

7/8" Flex Body Female Cable Assembly



PXPTPU78FBF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Available in 1m, 2m & 5m cable
- Mates with Right Angled and Panel Mount connectors



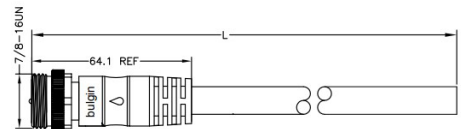
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78FBF03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78FBF04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78FBF05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78FBF03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78FBF04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78FBF05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78FBF03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78FBF04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78FBF05ACL050PUR	05	A	Overmould Cable	5m	PUR

7/8" Flex Body Male Cable Assembly



PXPTPU78FIM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Available in 1m, 2m & 5m cable
- Mates with Right Angled and Panel Mount connectors



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78FIM03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78FIM04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78FIM05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78FIM03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78FIM04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78FIM05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78FIM03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78FIM04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78FIM05ACL050PUR	05	A	Overmould Cable	5m	PUR

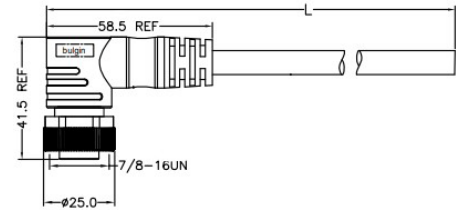


7/8" Right-Angled Female Cable Assembly



PXPTPU78RAF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Available in 1m, 2m & 5m cable
- Mates with Flex Body and Panel Mount connectors



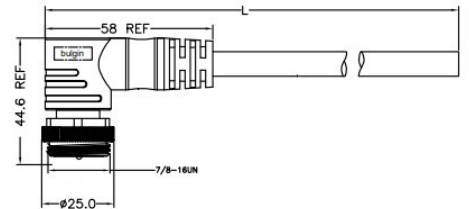
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78RAF03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78RAF04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78RAF05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78RAF03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78RAF04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78RAF05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78RAF03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78RAF04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78RAF05ACL050PUR	05	A	Overmould Cable	5m	PUR

7/8" Right-Angled Male Cable Assembly



PXPTPU78RAM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Available in 1m, 2m & 5m cable
- Mates with Flex Body and Panel Mount connectors



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78RAM03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78RAM04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78RAM05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78RAM03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78RAM04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78RAM05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78RAM03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78RAM04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78RAM05ACL050PUR	05	A	Overmould Cable	5m	PUR

Buccaneer 7/8" Series Circular Automation Connectors

Specifications



Electrical

No. Contacts:	3	4	5
Current Rating:	12A	8A* or 9A	9A
		<i>* 8A only for Flying Leads & Overmould Cable Assembly</i>	
Insulation Resistance:	>100MΩ		
Contact Resistance:	<10mΩ or <5mΩ (Front Panel Mounting Only)		
Voltage Rating (ac/dc) :	300V		
Operating Temp Range:	-25°C to +85°C		

Mechanical:

Cycles:	>100
Locking Mechanism:	Screw Coupling
Torque:	0.8Nm (7/8" Plug-In Connector) & 0.4Nm (Screw Terminal)
Cross-Section Area:	Max 1.5mm ²
Panel Mount Nut Torque:	2 - 2.5Nm
Termination:	Screw Terminals, PCB
Cable Entry:	6 - 12mm
Wire Gauge:	16 - 20AWG
IP Rating:	IP67

Body Material:	TPU, Black
Coupling Nut/Screw:	Brass, Nickel Plated
Contacts:	Phosphor Bronze Gold-Plated 1u"(Female), Brass gold plated 1u"(Male)
Insulation Plastic:	PA66+GF UL V-0, Or TPU Yellow (Front Panel Mounting Only)
RoHS:	Compliant

PCB Layout & Panel Cut-out

Part Number	PCB Layout Diagram	Panel Cut-out
PXMBNI78FPF03APCPG135		
PXMBNI78FPF04APCPG135		
PXMBNI78FPF05APCPG135		

Part Number	PCB Layout Diagram	Panel Cut-out
PXMBNI78FPM03APC78		
PXMBNI78FPM04APC78		
PXMBNI78FPM05APC78		

Buccaneer 7/8" Series Circular Automation Connectors

Specifications



Contact Diagrams (Front View 'A' Code):

PXxxx78xxx03xxxxxx



3PIN WIRE LIST

P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	OPEN
2	—	RED	
3	—	BLACK	

3PIN WIRE LIST (Flying Leads Only)

P1	PAIR	WIRE COLOUR	P2
PE	—	BROWN	OPEN
2	—	WHITE	
3	—	BLUE	

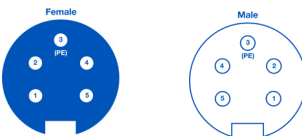
PXxxx78xxx04xxxxxx



4PIN WIRE LIST

P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	OPEN
2	—	WHITE	
3	—	BLUE	
4	—	BLACK	

PXxxx78xxx05xxxxxx



5PIN WIRE LIST

P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	OPEN
2	—	WHITE	
3	—	BLUE	
4	—	BLACK	
5	—	GREY	

Part Numbering:

XXX	XXX	XX	XX	X	XX	X	XX
Series	Material	Series Size	Body Style	Orientation	Contacts	Code	Termination
PXM	BNI = Brass Nickel	78 = 7/8"	FB = Flex Body	M = Male	03	A	ST = Screw Terminal
PXP	TPU = overmold for PUR		FI = Inline Body	F = Female	04		FL = Flying Lead
			FP = Front Panel Mounting		05		PC = PCB
			RA = Right Angle				CL = Cable

XXX or XXXXX	XXX	XXX
Mounting Nut (Right Angled and Flex Body Only)	Lead Length	Cable Material
M22	001 = 0.1m	PUR
OR	002 = 0.2m	
Panel Mounting Nut (Flying Leads Only)	005 = 0.5m	
PG135 = PG13.5	010 = 1m	
78 = 7/8"	020 = 2m	
	050 = 5m	



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