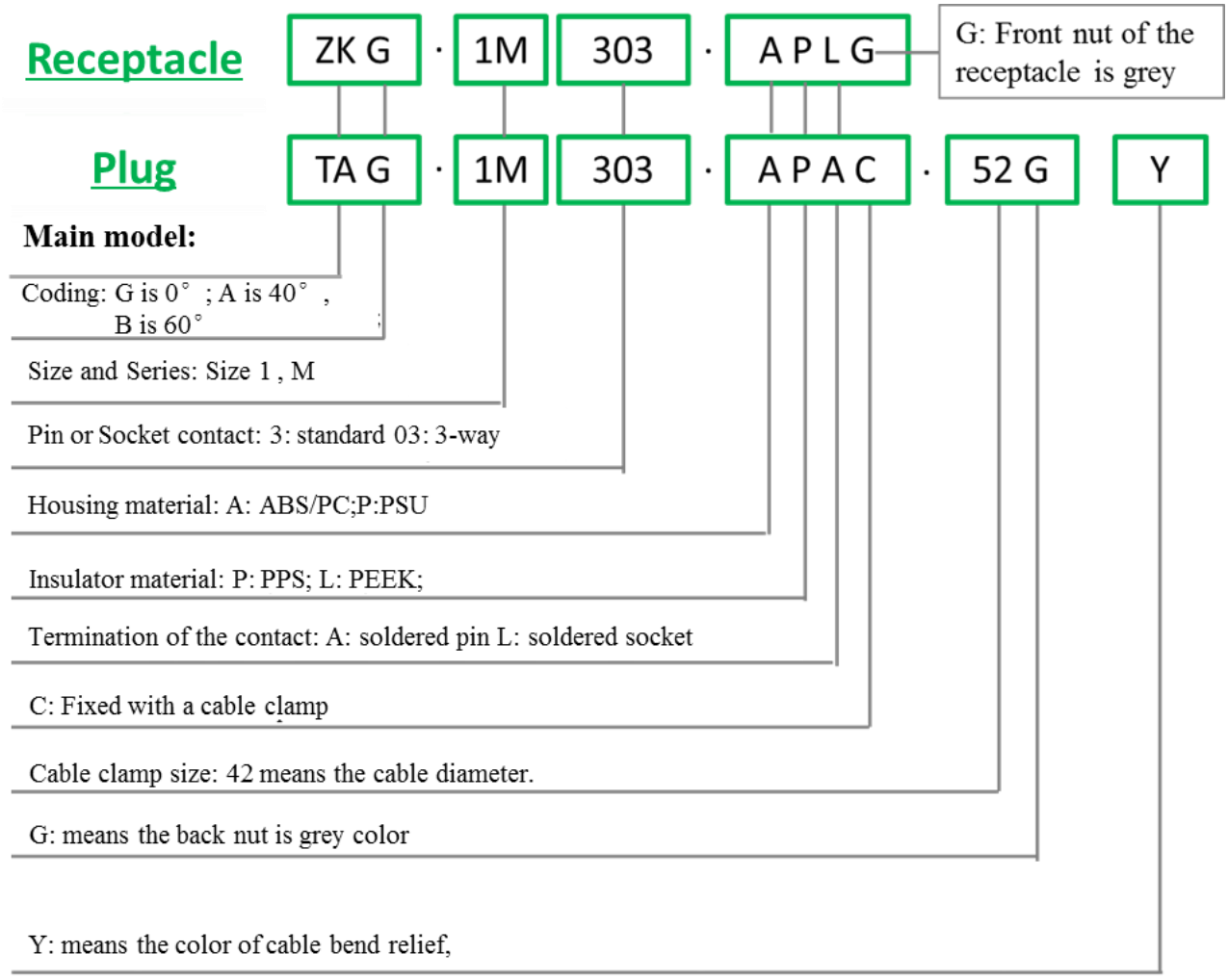
BIX

HIGH QUALITY CONNECTION

BIX Circular Push-Pull Connector - Plastic Series

Series M, IP50/IP64
Pin and groove coding

Part Number description



Example: Plug

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	A	G		1	M	3	0	3		A	P	A	C		5	2	G	Y

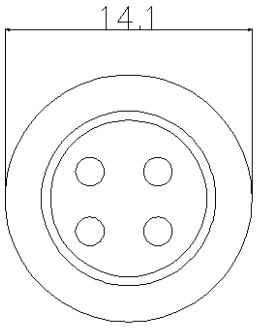
Plug - Style TA -Coding G， Size 1- Series M - 3-pin ,ABS/PC housing -PPS insulator -Soldering pin - Fixed with a cable clamp ,Applicable to the cable of 4.5~5.5mm,Yellow cable bend relief

Example: Receptacle

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Z	A	G		1	M	3	0	3		A	P	L	G

Receptacle - Style ZA-Coding G， Size 1- Series M - 3-pin ,ABS/PC housing -PPS insulator -Soldering socket - Front nut of the receptacle is grey

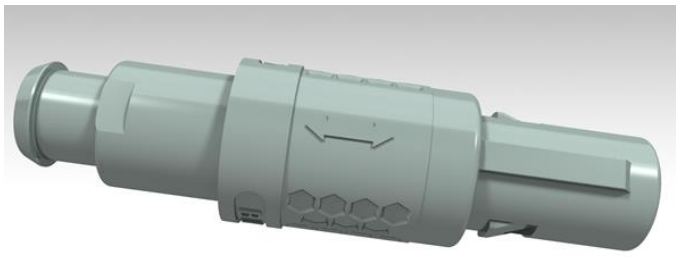
Housing size (scale 1:1)

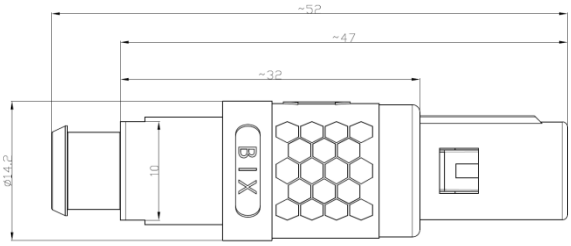
OD: outer diameter of the plug S:Size	
	
S	1
Corresponding number	1

Straight plug

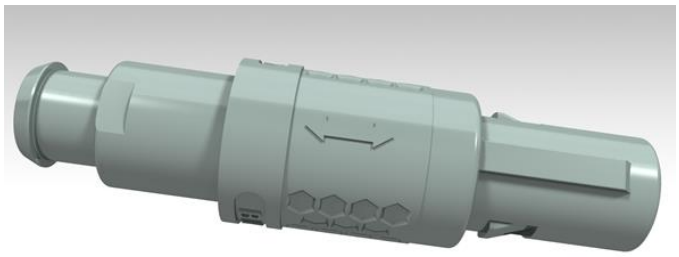
T	A	G		1	M	3	0	3		A	P	A	C		5	2	G	Y

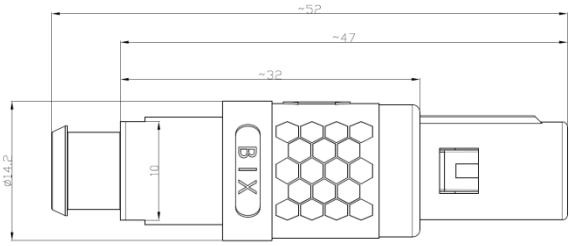
T A IP64, with back nut for cable bend relief



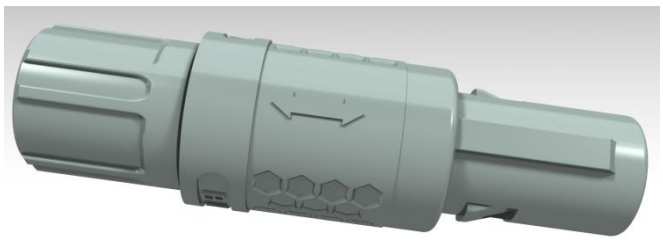


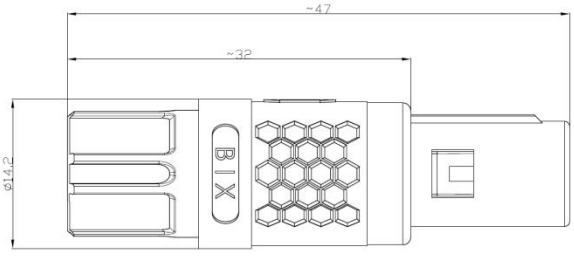
T B IP50, with back nut for cable bend relief





T K IP50, with standard back nut

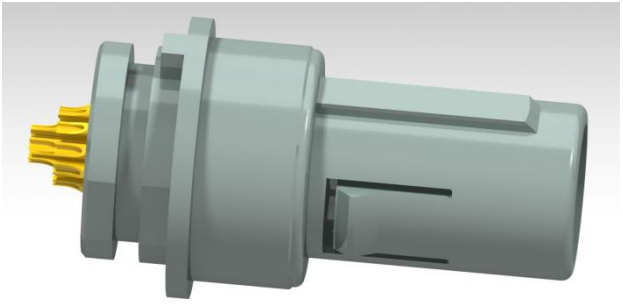


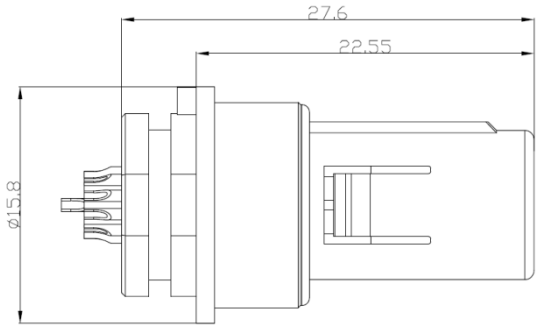


Straight plug

T	A	G		1	M	3	0	3		A	P	A	C		5	2	G	Y

T	J	IP64/IP50, disposable plug





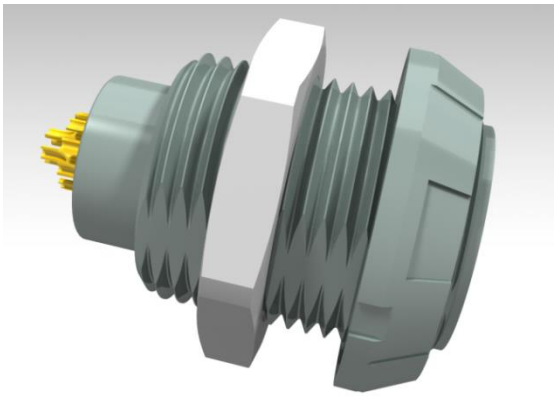
Receptacle

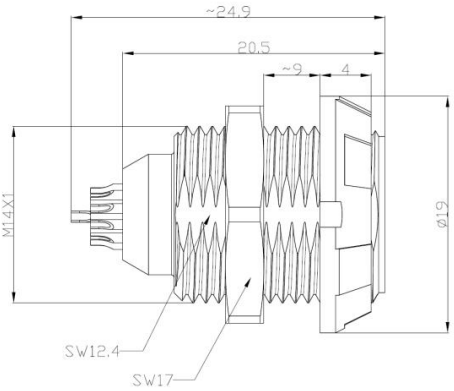
Z	A	G

1	M	3	0	3

A	P	L	G

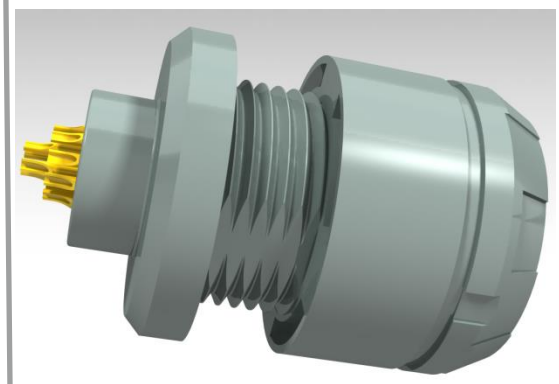
Z A IP50,fixed receptacle, with two nuts

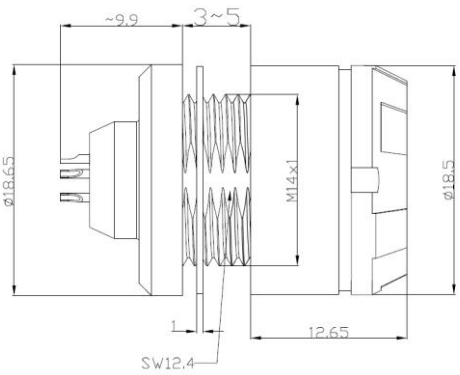




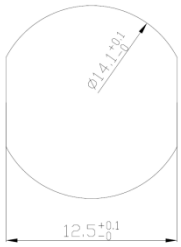
Panel cutting

Z B IP64, installation from front of panel

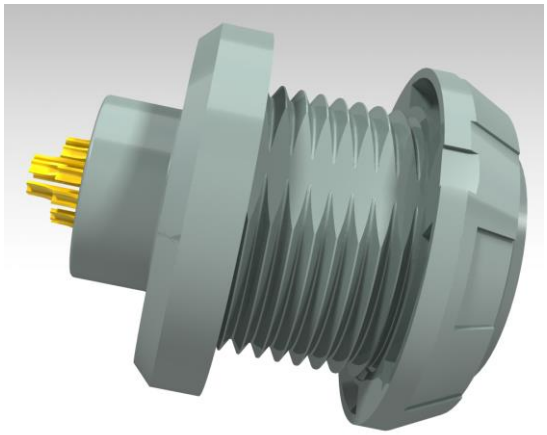


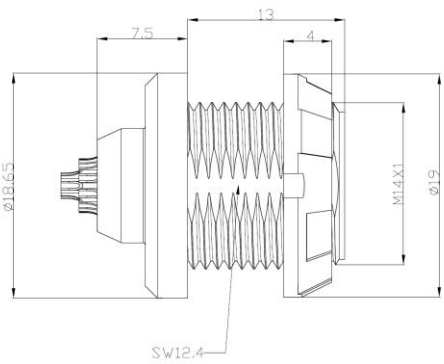


Panel cutting



Z D IP50, installation from front of panel





Panel cutting

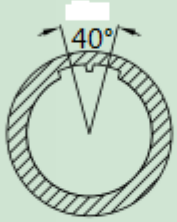
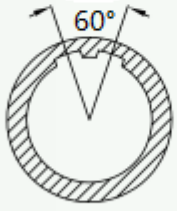
Coding

T	A	G
Z	A	G

1	M	3	0	3
1	M	3	0	3

A	P	A	C
A	P	L	G

5	2	G	Y

Angle	Coding	Front view of the	Size			
					1	
0°	G				●	
40°	A				●	
60°	B				●	
80°	C				●	

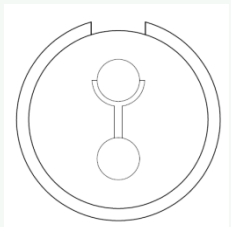
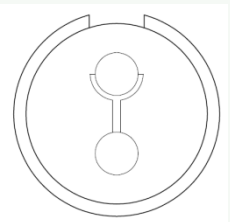
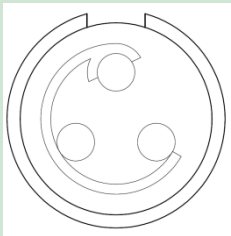
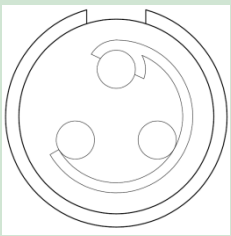
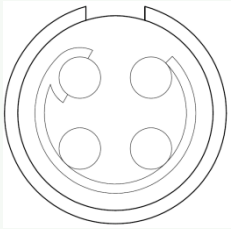
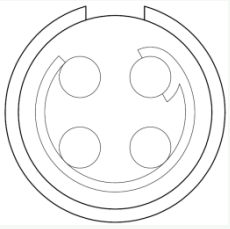
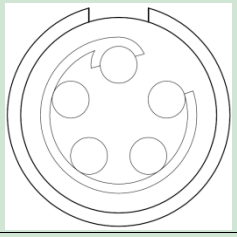
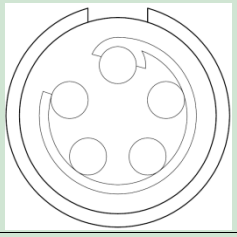
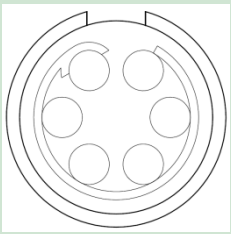
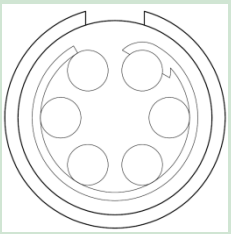
Number of contacts

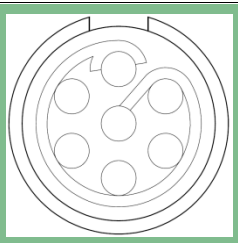
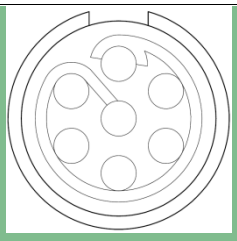
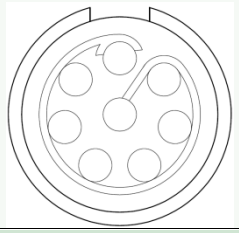
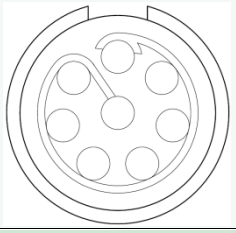
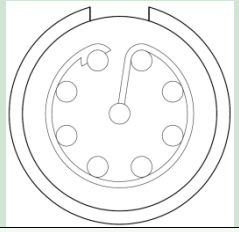
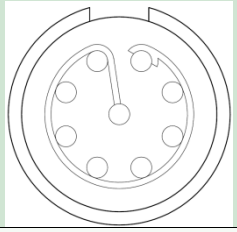
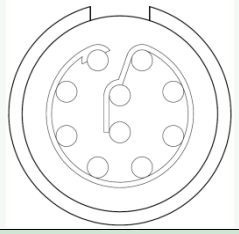
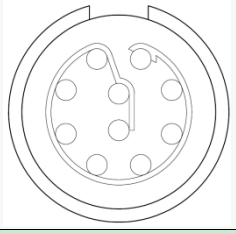
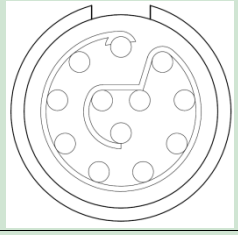
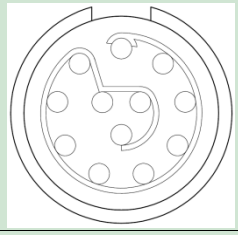
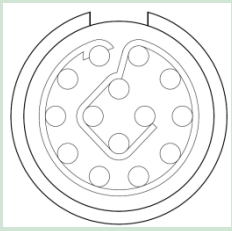
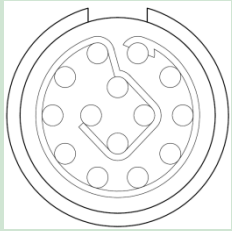
T	A	G
Z	A	G

1	M	3	0	3
1	M	3	0	3

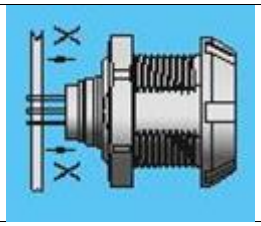
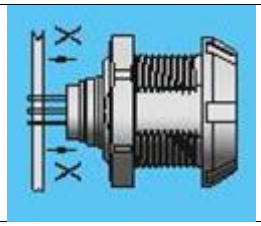
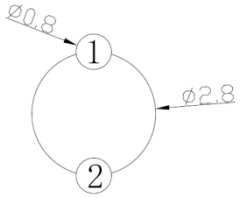
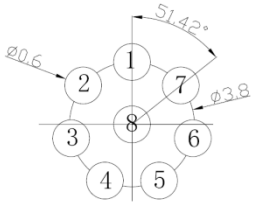
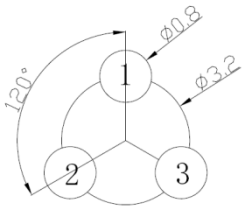
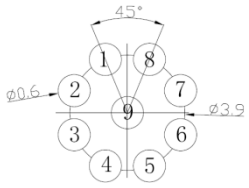
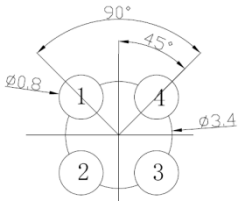
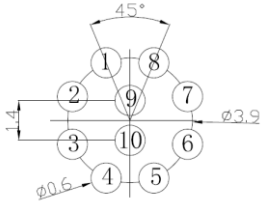
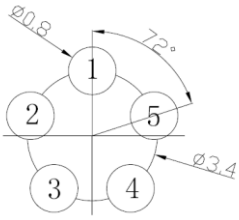
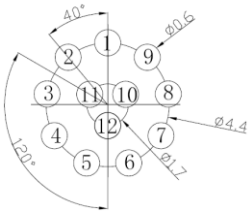
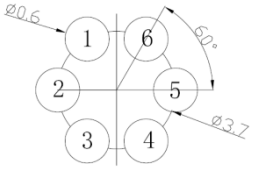
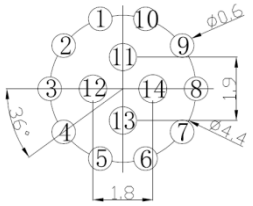
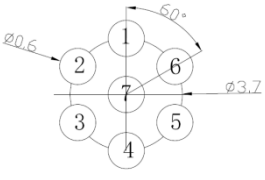
A	P	A	C
A	P	L	G

5	2	G	Y

Size	Insulator material	Number of pins	Pin diameter mm	Single-pin load current	Test voltage KV	Operating voltage KV	Termination method			Pin	View on the termination side Socket
							Soldering	PCB	crimping		
1	A	02	1.3	14	1.9	0.55	●	●	●		
1	A	03	1.3	14	1.9	0.55	●	●	●		
1	A	04	0.9	10	1.9	0.5	●	●	●		
1	A	05	0.9	10	1.6	0.5	●	●	●		
1	A	06	0.7	7	1.6	0.5	●	●	●		

1	A	07	0.7	7	1.6	0.45					
1	A	08	0.7	7	1.6	0.45	●	●	●		
1	A	09	0.5	5	1.35	0.45	●	●	●		
1	A	10	0.5	5	1.35	0.4	●	●	●		
1	A	12	0.5	5	1.2	0.4	●	●	●		
1	A/O	14	0.5	5	1.2	0.4	●	●	●		

PCB layout

			
02		08	
03		09	
04		10	
05		12	
06		14	
07			

Housing material

T	A	G	1	M	3	0	3	A	P	A	C	5	2	G	Y
Z	A	G	1	M	3	0	3	A	P	L	G				

Housing material

No.	Housing material
A	ABS/PC
P	PSU

Insulator material

T	A	G	1	M	3	0	3	A	P	A	C	5	2	G	Y
Z	A	G	1	M	3	0	3	A	P	L	G				

turned pin

No.	Termination
A	PEEK
P	PPS
O	No suitable

Pin/socket type

T	A	G	1	M	3	0	3	A	P	A	C	5	2	G	Y
Z	A	G	1	M	3	0	3	A	P	L	G				

Pin/socket type

Type	No.	Termination method
Socket	L	Soldering
Pin	A	Soldering
Socket	N	PCB
Pin	D	PCB
Socket	M	Crimping
Pin	C	Crimping

Cable collet

T	A	G			1	M	3	0	3		A	P	A	C		5	2	G	Y

Cable type

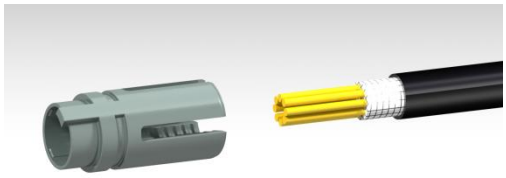
No.	Termination method
C	suitable
O	No suitable

Cable collet Φ

T	A	G	1	M	3	0	3	A	P	A	C	5	2	G	Y

No.		Cable outer diameter mm	Housing size 1
4	2	3.5-4.5	●
5	2	4.5-5.5	●
6	2	5.5-6.5	●

Schematic diagram of cable collet



Nut type

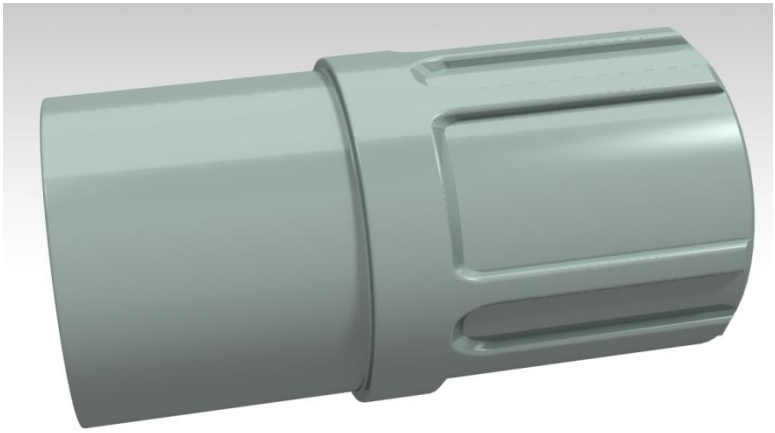
T	A	G	1	M	3	0	3	A	P	A	C	5	2	G	Y
Z	A	G	1	M	3	0	3	A	P	L	G				

Plastic front nut / Nut for fitting a Bend relief

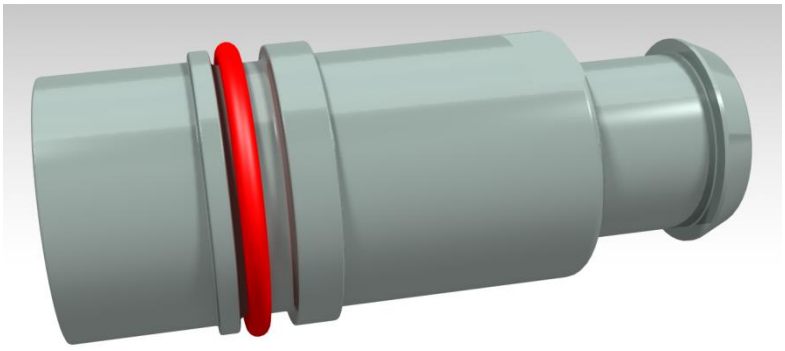
No.	Termination method
G	Grey
B	Blue
W	White
Y	Yellow
L	Black
R	Red
V	Green

Back Nut

Standard back nut



Bend relief /Over molding back nut

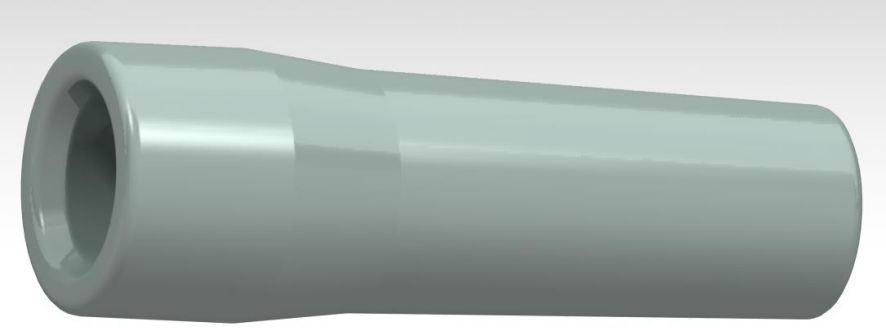


Bend relief

T	A	G	1	M	3	0	3	A	P	A	C	5	2	G	Y

Co	Color
B	Blue
W	White
B	Grey
Y	Yellow
L	Black
R	Red
V	Green

A bend relief absorbs the force that may be exerted on cables.
These are designed for plugs and free sockets with cable collet and nut.



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