



Backshells and Accessories

370P*024 Environmental Backshell



Self-Locking

370P*024 environmental backshell fits Glenair Series 970 PowerTrip connectors. For use with unshielded jacketed cable. Strain relief styles include saddle clamp or low profile nut. Anti-decoupling mechanism provides audible detented coupling and prevents backoff under high vibration. Available in aluminum or stainless steel.

- Cable sealing backshell for Series 970 PowerTrip® connectors
- Use with unshielded jacketed cable
- Self-locking coupling nut
- Three strain relief options: gland nut, saddle clamp or wire mesh cordgrip

BACKSHELLS AND ACCESSORIES

PROFILE SELECTION GUIDE

S Straight

M 45°

N 90°

HOW TO ORDER

Sample Part Number →	370PS024	NF	20	06H	-6
Base P/N	Base Part No. Profile				
	370PS024 S Straight				
	370PM024 M 45°				
	370PN024 N 90°				
Material/Finish	ME = Aluminum / Electroless Nickel MT = Aluminum / Nickel PTFE NF = Aluminum / Olive Drab Cadmium TZ = Aluminum / Tin-Zinc ZR = Aluminum / Black Zinc-Nickel Z1 = Stainless Steel / Passivated				
Shell Size	18 20 24 28 32 36 40				
Order Code	See Table 1, 2 or 3 below for Order Code				
Length	6 = 3 inches 8 = 4 inches 10 = 5 inches 12 = 6 inches 14 = 7 inches				

*Applies to Profile **S** straight only.
 Sizes 18–20 3.0 inches minimum, sizes 24–40 4.0 inches minimum. If selected Entry Size is greater than Maximum Entry Size (see next page), then 5 inch minimum applies.*

CONSTRUCTION

Coupling nut, body, saddles, gland nut: aluminum or SST

Hardware: stainless steel/passivated

Anti-decoupling spring: thermoplastic (aluminum body) or SST (SST body)

Grommet: silicone

Cable grip: stainless steel, passivated

TABLE 1 SADDLE CLAMP

Order Code	Cable Range				Shell Size
	Min. In.	Min. mm.	Max. In.	Max. mm.	
04H	.125	3.2	.312	7.9	18-40
06H	.250	6.4	.437	11.1	18-40
08H	.387	9.8	.562	14.3	18-40
10H	.350	8.9	.625	15.9	18-40
12H	.500	12.7	.750	19.1	20-40
16H	.625	15.9	.937	23.8	24-40
20H	.875	22.2	1.250	31.8	28-40
24H	1.000	25.4	1.375	34.9	32-40
28H	1.250	31.8	1.625	41.3	36-40
32H	1.437	36.5	1.875	47.6	40

TABLE 2 GLAND NUT

Order Code	Max. Cable Dia.		Shell Size
	In.	mm.	
06D	.438	11.1	18-40
08D	.562	14.3	18-40
10D	.625	15.9	18-40
12D	.750	19.1	20-40
16D	.937	23.8	24-40
20D	1.250	31.8	28-40
24D	1.375	34.9	32-40
28D	1.625	41.3	36-40
32D	1.875	47.6	40
40D	2.375	60.3	–

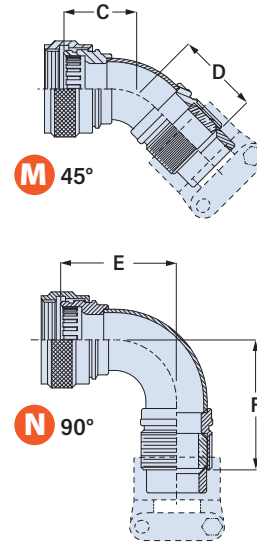
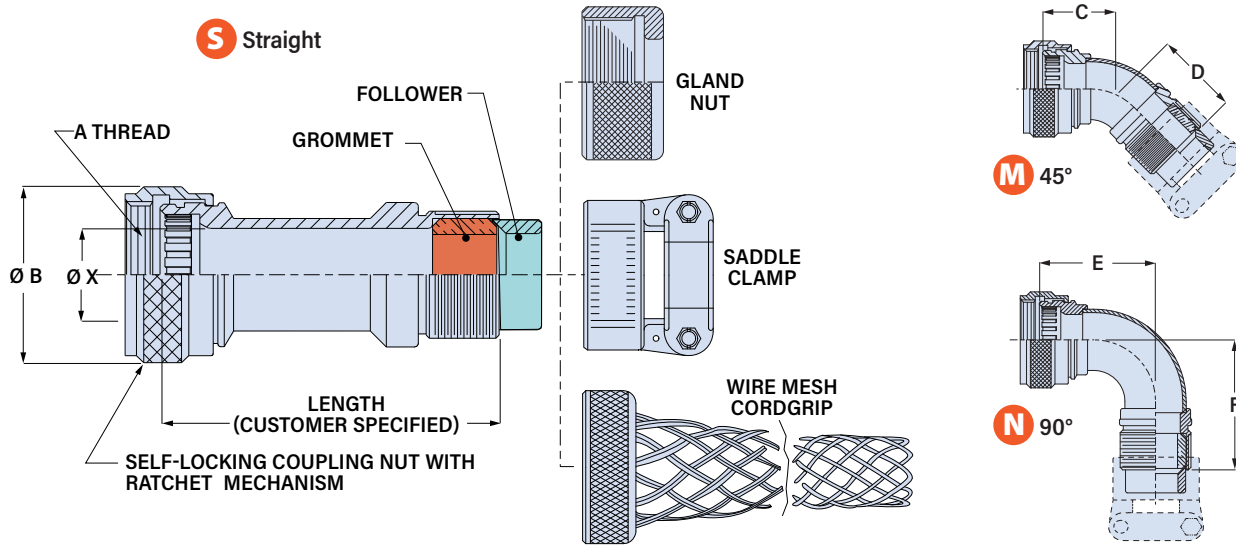
TABLE 3 WIRE MESH CORDGRIP

Order Code	Cable Range				Shell Size
	Min. In.	Min. mm.	Max. In.	Max. mm.	
04K	.210	5.3	.310	7.9	18-40
06K	.310	7.8	.438	11.1	18-40
08K	.438	11.1	.500	12.7	18-40
10K	.500	12.7	.625	15.8	18-40
12K	.625	15.9	.750	19.1	20-40
14K	.750	19.1	.875	22.2	24-40
16K	.875	22.2	1.000	25.4	24-40
20K	1.000	25.4	1.250	31.8	28-40
24K	1.125	28.6	1.375	34.9	32-40
28K	1.375	34.9	1.625	41.2	36-40
32K	1.625	41.3	1.875	47.6	40
40K	2.125	53.9	2.375	60.3	–

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BACKSHELLS AND ACCESSORIES



DIMENSIONS														
Shell Size	A Thread 2B	ø B Max		C Max		D Max		E Max		F Max		ø X Min		Max Entry Size
		In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	
18	1.125-18 UNEF	1.39	35.3	1.250	31.8	2.468	62.7	1.906	48.4	1.812	46.0	.724	18.4	10
20	1.250-18 UNEF	1.53	38.9	1.312	33.3	2.657	67.5	2.031	51.6	1.938	49.2	.858	21.8	12
24	1.4375-18 UNEF	1.72	43.7	1.46	35.7	3.063	77.8	2.281	57.9	2.188	55.6	1.043	26.5	16
28	1.8125-16 UN	2.13	54.1	1.500	38.1	3.656	92.9	2.531	64.3	2.625	66.7	1.353	34.4	20
32	2.0625-16 UNS	2.35	59.7	1.675	42.5	3.845	97.7	2.625	66.7	2.895	73.5	1.620	41.2	24
36	2.250-16 UN	2.59	65.8	1.799	45.7	4.230	107.4	2.875	73.0	3.145	79.9	1.823	46.3	28
40	2.500-16 UN	2.87	70.6	1.861	47.3	4.459	113.3	3.025	76.8	3.295	83.7	2.050	52.1	32

MAXIMUM ENTRY SIZE		
If the selected entry size exceeds the maximum size in this table, the backshell will have a front adapter. This is called a Style 2 backshell.	Shell Size	Maximum Entry Size
	18	10
	20	12
	24	16
	28	20
	32	24
36	28	
40	32	

SADDLE CLAMP DIMENSIONS				
	T Max		V Max	
	In.	mm.	In.	mm.
04H	.780	19.8	.957	24.3
06H	.780	19.8	1.145	29.1
08H	.780	19.8	1.332	33.8
10H	.780	19.8	1.332	33.8
12H	.811	20.6	1.551	39.4
16H	.905	23.0	1.770	45.0
20H	1.092	27.7	2.113	53.7
24H	1.124	28.5	2.363	60.0
28H	1.399	35.5	2.770	70.4
32H	1.399	35.5	3.020	76.7
36H	1.750	44.5	3.250	82.6
40H	1.750	44.5	3.500	88.9

GLAND NUT DIM.		
	Order Code	ø Y Max
	In.	mm.
06D	.942	23.9
08D	1.067	27.1
10D	1.192	30.3
12D	1.380	35.1
16D	1.535	39.0
20D	1.848	46.9
24D	2.255	57.3
28D	2.505	63.6
32D	2.755	70.0
40D	3.255	82.7

WIRE MESH CORDGRIP DIM.			
	Order Code	L Max	M
	In.	mm.	In.
04K	.755	19.2	2.75
06K	.942	23.9	4.00
08K	1.067	27.1	4.12
10K	1.192	30.3	4.37
12K	1.380	35.1	5.00
14K	1.563	39.7	6.00
16K	1.563	39.7	6.25
20K	1.875	47.6	7.25
24K	2.225	57.3	8.00
28K	2.505	63.6	8.50
32K	2.755	70.0	9.00
40K	3.225	82.7	9.50

STYLE 2 STRAIGHT BACKSHELL

Style 2 profile **S** straight backshell minimum length code is 10 (5 inches).

STYLE 2 45° AND 90° BACKSHELLS

For Profile **M** and **N** 45° and 90° backshells, the front adapter adds 1 inch.