



# M85049/31 Non-Environmental Nut Backshell

Provides Mechanical Protection

## RUGGED

- Manufactured from aluminum the product provides mechanical strength and protection from physical damage

## VERSATILE

- Can be used with any compatible connector

## EFFICIENT

- Easy thread on application

## RELIABLE

- The backshell offers an outstanding mechanical connection as well as reliable protection

## FULLY COMPLIANT

- Meets performance requirements of SAE AS-85049/31

## APPLICATIONS

- Mechanical protection

## Description

TE Connectivity (TE)'s M85049/31 Non-Environmental Nut Backshell is designed to meet performance requirements of AS85049/31. The backshell mates to MIL-DTL-5015 crimp, MIL-C-26482 Series 2, AS81703 Series 3 and MIL-DTL-83723 Series 3 connectors.

The M85049/31 Non-Environmental Nut Backshell consists of a coupling nut and follower. The coupling nut is captivated to the follower and rotatable. This component is Category 3B (medium duty) and non-environmental.

For materials and plating finishes information, refer to R85049.

For alternative materials and plating finishes, contact TE Connectivity.

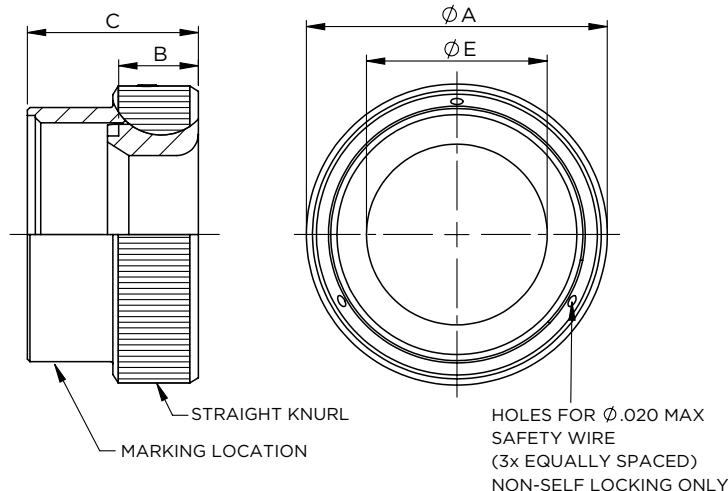
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# M85049/31 Non-Environmental Nut Backshell

Provide Protection and Compression of the Connector Grommet



## Part Numbering System

R85049 / 31 - 14 N

Basic Part Number

Specification Sheet

Configuration

- (Dash) Non-Self-Locking  
S Self-Locking

Dash Number (Table 1)

Finish (Table 2)

Table 1

SHELL SIZE					NON SELF-LOCKING				SELF-LOCKING			
Dash Number	AS81703 SERIES III	MIL-C-26482 SERIES II	MIL-DTL-5015 CRIMP	MIL-DTL-83723 SERIES III	ØA MAX	B MAX	C MAX	ØE MAX	ØA MAX	B MAX	C MAX	ØE MAX
3	3	-	-	-	.669 (16.99)	.220 (5.58)	.540 (13.72)	.270 (6.86)	-	-	-	-
8	-	8	8S	8	.617 (15.67)	.220 (5.58)	.540 (13.72)	.270 (6.86)	.885 (22.48)	.390 (9.90)	.710 (18.03)	.270 (6.86)
10	-	10	10S & 10SL	10	.734 (18.64)	.220 (5.58)	.540 (13.72)	.375 (9.53)	1.010 (25.65)	.390 (9.90)	.710 (18.03)	.375 (9.53)
12	7	12	12S & 12	12	.858 (21.79)	.220 (5.58)	.540 (13.72)	.511 (12.98)	1.135 (28.83)	.390 (9.90)	.710 (18.03)	.511 (12.98)
14	12	14	14S & 14	14	.984 (24.99)	.220 (5.58)	.540 (13.72)	.585 (14.86)	1.260 (32.00)	.390 (9.90)	.710 (18.03)	.585 (14.86)
16	19	16	16S & 16	16	1.112 (28.24)	.220 (5.58)	.540 (13.72)	.710 (18.03)	1.385 (35.18)	.390 (9.90)	.710 (18.03)	.710 (18.03)
18	27	18	18	18	1.218 (30.94)	.220 (5.58)	.540 (13.72)	.789 (20.04)	1.510 (38.35)	.390 (9.90)	.710 (18.03)	.789 (20.05)
20	37	20	20	20	1.345 (34.16)	.220 (5.58)	.540 (13.72)	.914 (23.22)	1.635 (41.53)	.390 (9.90)	.710 (18.03)	.914 (23.22)
22	-	22	22	22	1.468 (37.29)	.220 (5.58)	.540 (13.72)	1.039 (26.39)	1.760 (44.70)	.390 (9.90)	.710 (18.03)	1.039 (26.39)
24	-	24	24	24	1.593 (40.46)	.220 (5.58)	.540 (13.72)	1.154 (29.31)	1.885 (47.88)	.390 (9.90)	.710 (18.03)	1.154 (29.31)
28	-	-	28	-	1.969 (50.01)	.220 (5.58)	.702 (17.83)	1.389 (35.28)	2.135 (54.23)	.410 (10.41)	.890 (22.60)	1.389 (35.28)
32	-	-	32	-	2.219 (56.36)	.220 (5.58)	.702 (17.83)	1.635 (41.53)	2.395 (60.83)	.410 (10.41)	.890 (22.60)	1.635 (41.53)
36	-	-	36	-	2.469 (62.71)	.220 (5.58)	.702 (17.83)	1.850 (46.99)	2.635 (66.93)	.410 (10.41)	.890 (22.60)	1.850 (46.99)
40	-	-	40	-	2.719 (69.06)	.220 (5.58)	.702 (17.83)	2.065 (52.45)	2.885 (73.28)	.410 (10.41)	.890 (22.60)	2.065 (52.45)
44	-	-	44	-	2.969 (75.41)	.220 (5.58)	.702 (17.83)	2.320 (58.93)	3.135 (79.63)	.410 (10.41)	.890 (22.60)	2.320 (58.93)
46	-	-	48	-	3.219 (81.76)	.220 (5.58)	.702 (17.83)	2.570 (65.28)	3.385 (85.98)	.410 (10.41)	.890 (22.60)	2.570 (65.28)
61	61	-	-	-	1.653 (41.99)	.220 (5.58)	.540 (13.72)	1.194 (30.33)	-	-	-	-

Metric equivalents are in parenthesis and are given for general information only

Table 2

Code	Finish
N	Electroless Nickel (96 Hrs Salt Spray Resistance)
W	Cadmium Olive Drab over Electroless Nickel (1000 Hrs Salt Spray Resistance)
Z	Zinc Nickel Black Passivate over Electroless Nickel (1000 Hrs Salt Spray Resistance)

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Consult TE for the latest dimensions and design specifications.

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