



FlexiScreen Series Raychem Backshells

360° Shielding in a Rugged Backshell to Help Achieve
Excellent EMC Performance

FlexiScreen Series Raychem Backshells

High-Performance Termination System for EMC



Raychem FlexiScreen high-performance backshells are designed to provide EMI protection for both commercial and military applications. FlexiScreen backshells represent a significant improvement over pigtail termination methods by providing 360° EMI shielding on the termination area of each individual cable. FlexiScreen backshell terminations allow the cable bundle to be installed at various angles, such as 30° and 45°, using a single backshell design.

FlexiScreen backshells are a cost-effective solution while maintaining low weight.

HIGH PERFORMANCE

- Capitalizes on tried and true performance of HexaShield adapter components
- Outperforms commonly used alternatives
- Provides 360° EMI shielding
- Flexible and variable bending configurations

EFFICIENT

- FlexiScreen backshell kit contains backshell assembly, multi-position star, and band strap
- Cost effective
- Light weight
- Repairable

APPLICATIONS

- Aerospace
- Defense
- Ground Vehicles
- Control Circuits

ELECTRICAL

- **DC Resistance:**
 - <5.0 mΩ braid to backshell
 - <10.0 mΩ braid to cable braids
- **Shielding Effectiveness:** Complies with ANSI/NEMA EC 61-2005
- **Lightning Strike:** No damage or degradation of components; tested per RTCA/DO-160, Section 22

PHYSICAL PROPERTIES

- **Vibration:** Tested per EIA-364-28, test condition VI, letter J
- **Mechanical Shock:** Tested per EIA-364-27, test condition D
- **Cable Pull-out:** Tested per EIA-364-38, test condition E
- **Operating Temperature:** -65°C to +150°C
- **Finish Types:**
 - Cadmium olive drab to SAE AMS-QQ-P-416
 - Electroless nickel to SAE-AMS-C-26074 Class 3, Grade B (Additional finish types available upon request)

TE STANDARDS

- **TE Specification:** RB-117
- **TE Installation Procedure:** RPIP-696-21

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.



Ordering Information

CONNECTOR CODE NUMBER

- FLS40** MIL-DTL-38999 Series III and IV
- FLS41** MIL-DTL-38999 Series I and II
- FLS54** MIL-DTL-5015H, MIL-DTL-26482 Series II, M83723 Series I and III, and all connectors with MS3155 controlled accessory interface

MATERIAL CODE

- A** Aluminum alloy
- K** Stainless steel

FINISH TYPE

- B** Olive drab cadmium to SAE-AMS-PQ-P-416
- C** Electroless nickel to SAE-AMS-C-26074 Class 3, Grade B

ORDER NUMBER (See Tables)

10, 12, 14, 16, 18, 20, 24

BRAID (Supplied 3" (76 mm) as standard length)

- A** Tin-plated copper, 36 AWG, single braid
- B** Tin-plated copper, 36 AWG, double braid
- C** Nickel-plated copper, 36 AWG, single braid
- D** Nickel-plated copper, 36 AWG, double braid

STAR CONFIGURATION

- A** Standard star
- B** Star, one size smaller
- C** Star, one size larger

FLS40 A B 10 A A

FLS40

Order No.	Shell Size	Entry Size	ØZ +0.10 -0.020	ØA Metric Thread Class 6H	ØB Max.	Star Configuration (Number of Ferrule Positions)
10	11	07	11.09 (0.437)	M15 x 1	21.25 (0.84)	A = 2 B = N/A C = 3
12	13	08	12.70 (0.500)	M18 x 1	24.50 (0.97)	A = 3 B = 2 C = 5
14	15	10	15.87 (0.625)	M22 x 1	29.00 (1.15)	A = 5 B = 3 C = 6
16	17	12	19.05 (0.750)	M25 x 1	33.50 (1.32)	A = 6 B = 5 C = 7
18	19	14	22.23 (0.875)	M28 x 1	37.50 (1.48)	A = 7 B = 6 C = 9
20	21	16	25.40 (1.00)	M31 x 1	39.50 (1.56)	A = 9 B = 7 C = 10
22	23	18	28.57 (1.125)	M34 x 1	42.00 (1.66)	A = 10 B = 9 C = 13
24	25	20	34.93 (1.375)	M37 x 1	45.00 (1.78)	A = 12 B = 10 C = 17

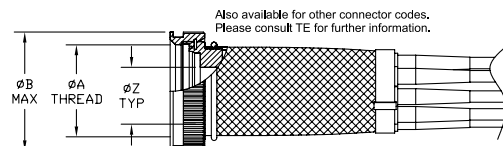
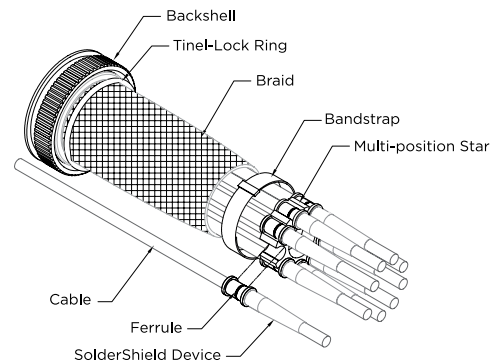
FLS54

Order No.	Shell Size	Entry Size	ØZ +0.10 -0.020	ØA Thread Class 6H	ØB Max.	Star Configuration (Number of Ferrule Positions)
10	10, 10S, 10SL	06	9.52 (.375)	.6250"-24 UNEF	20.40 (0.80)	A = 2 B = N/A C = 3
12	12, 12S	08	12.70 (.500)	.7500"-20 UNEF	23.80 (0.93)	A = 3 B = 2 C = 5
14	14, 14S	08	12.70 (.500)	.8750"-20 UNEF	27.00 (1.06)	A = 5 B = 3 C = 6
16	16, 16S	10	18.87 (.625)	1.000"-20 UNEF	31.45 (1.23)	A = 6 B = 5 C = 7
18	18	12	19.05 (.750)	1.0625"-18 UNEF	33.25 (1.30)	A = 7 B = 6 C = 9
20	20	14	22.22 (.875)	1.1875"-18 UNEF	36.45 (1.43)	A = 9 B = 7 C = 10
22	22	16	25.40 (1.000)	1.3125"-18 UNEF	39.60 (1.55)	A = 10 B = 9 C = 13*
24	24	18	28.58 (1.125)	1.4375"-18 UNEF	42.80 (1.68)	A = 12 B = 10 C = 17*

* Star configuration uses 3 piece star (1 star, 2 half stars)

FLS41

Order No.	Shell Size		Entry Size	ØZ +0.10 -0.020	ØA Thread RH Class 2B	ØB Max.	Star Configuration (Number of Ferrule Positions)
	Ser 1	Ser 2					
10	11	10	06	9.52 (.375)	.562-24 UNEF	22.2 (.875)	A = 2 B = N/A C = 3
12	13	12	08	12.70 (.500)	.688-24 UNEF	25.4 (1.00)	A = 3 B = 2 C = 5
14	15	14	10	15.87 (0.625)	.812-20 UNEF	30.2 (1.188)	A = 5 B = 3 C = 6
16	17	16	12	19.05 (0.750)	.938-20 UNEF	33.3 (1.312)	A = 6 B = 5 C = 7
18	19	18	12	19.05 (0.750)	1.062-18 UNEF	36.5 (1.438)	A = 7 B = 6 C = 9
20	21	20	14	22.23 (0.875)	1.188-18 UNEF	39.6 (1.562)	A = 9 B = 7 C = 10
22	23	22	16	25.40 (1.00)	1.312-18 UNEF	42.9 (1.688)	A = 10 B = 9 C = 13
24	25	24	18	28.57 (1.125)	1.438-18 UNEF	45.2 (1.781)	A = 12 B = 10 C = 17



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Consult TE for the latest dimensions and design specifications.

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