

CANNON SERVICES, LTD.

The Industry's Leading Source for ESP Cable and Control Line Protection Systems

Overview

Cannon's Mid Joint Protectors are typically used in conjunction with our Cross Coupling Protector on the tubing string. As the name implies these protectors are installed "mid joint" on the tubing and used to protect virtually any configuration of control lines or cables in the well. The Protector uses a compressive fit design to accommodate oversize or undersize tubing per API spec and securely engage the cable or lines to the tubing. Field installation is quick and simple using our air driven hydraulic installation tools to compress the collars and drive the Taper Pin into place.



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Mid Joint Clamp

Applications

Protection for cables and lines on:

- ❖ Artificial lift
- ❖ Permanent Gauges
- ❖ Intelligent Wells
- ❖ Chemical Injection
- ❖ Fiber Optics
- ❖ Safety Valves
- ❖ Geo Phones

Features & Benefits

- ❖ Interchangeable designs to fit tubing sizes from 2.375" OD to 13.375" OD
- ❖ Configurations for flat, round, or square cables, bundles or lines
- ❖ Compatible with Fiber Optics
- ❖ Dual or triple channel configurations available to separate multiple line configurations
- ❖ Protectors are re-useable saving costs on well recompletions
- ❖ Suitable for high angle wellbores
- ❖ Custom configurations upon request

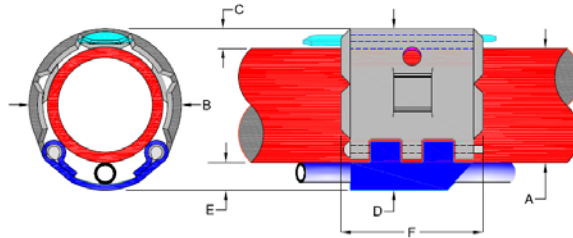


Mid Joint Protector

Specification Guide – Flat Channel

7.000	7.85	.41	7.78	7.90	7.96	8.03	8.18	8.32	E = TUBE/BUNDLE PLUS CHANNEL MATERIAL THICKNESS
5.500	6.35	.41	6.28	6.40	6.46	6.53	6.68	6.82	
5.000	5.85	.40	5.77	5.89	5.95	6.02	6.17	6.31	
4.500	5.35	.40	5.27	5.39	5.45	5.52	5.67	5.81	
4.000	4.85	.39	4.76	4.88	4.94	5.01	5.16	5.30	
3.500	4.35	.38	4.25	4.37	4.43	4.50	4.65	4.79	
2.875	3.73	.38	3.62	3.75	3.80	3.87	4.02	4.16	
2.375	3.23	.38	3.12	3.25	3.30	3.37	3.52	----	
PRODUCTION TUBING SIZE A	+427 /SIDE B	C	CABLE SIZE D (Nominal Running O.D.)						
ALL DIMENSIONS IN INCHES									

* Consult your Cannon Representative for actual running OD's, additional sizes and configurations



Specification Guide – Round Channel

7.000	7.85	.41	8.53	8.63	8.73	8.83	8.93	9.03	E = CABLE PLUS CHANNEL MATERIAL THICKNESS
5.500	6.35	.41	7.03	7.13	7.23	7.33	7.43	7.53	
5.000	5.85	.40	6.52	6.62	6.72	6.82	6.92	7.02	
4.500	5.35	.40	6.02	6.12	6.22	6.32	6.42	6.52	
4.000	4.85	.39	5.51	5.61	5.71	5.81	5.91	6.01	
3.500	4.35	.38	5.00	5.10	5.20	5.30	5.40	5.50	
2.875	3.73	.38	4.37	4.47	4.57	4.67	4.77	4.87	
2.375	3.23	.38	3.87	3.97	4.07	4.17	4.17	----	
PRODUCTION TUBING SIZE A	+427 /SIDE B	C	CABLE SIZE D (Nominal Running O.D.)						
ALL DIMENSIONS IN INCHES									

* Consult your Cannon Representative for actual running OD's, additional sizes and configurations

