

The BNT Nonmetallic Cable Support For Power Manholes And Vaults



UNDERGROUND DEVICES BNT NONMETALLIC CABLE SUPPORTS:

- High Load Capacity
- Arms Can be Used With
Nonmetallic or Steel Stanchions
- Will Not Rust or Corrode
- Insulators Not Required
- Excellent Dielectric Properties
- Multiple Stanchion Lengths Available
- Arms Available in Multiple Lengths With
Integrated Saddles or a Flat Surface
- Molded from UL Listed
Glass Reinforced Polymer

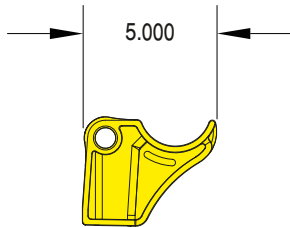


BNT Saddle Arms Installed in a
Nonmetallic Stanchion

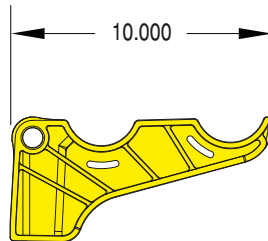


RACK ARM COMPONENT PARTS

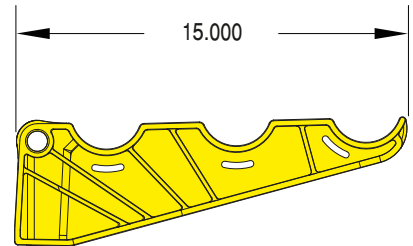
BNT SADDLE ARMS



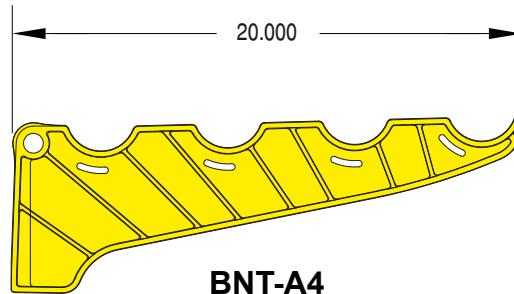
BNT-A1



BNT-A2

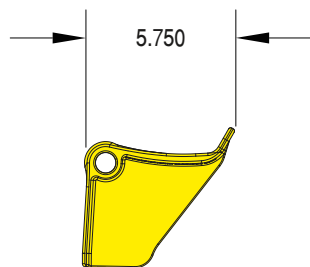


BNT-A3

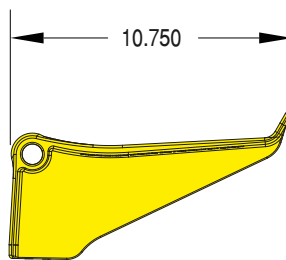


BNT-A4

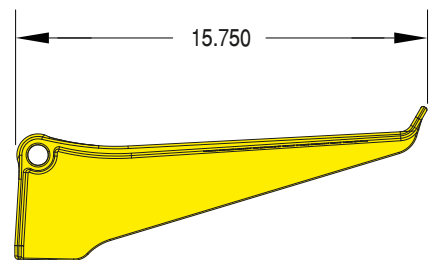
BNT FLAT ARMS



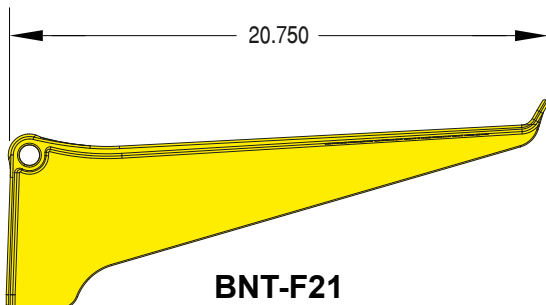
BNT-F6



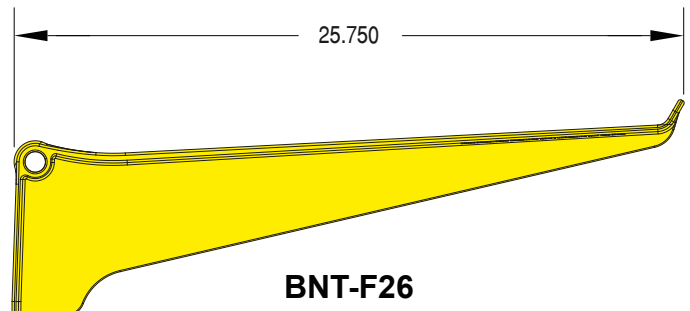
BNT-F11



BNT-F16



BNT-F21



BNT-F26

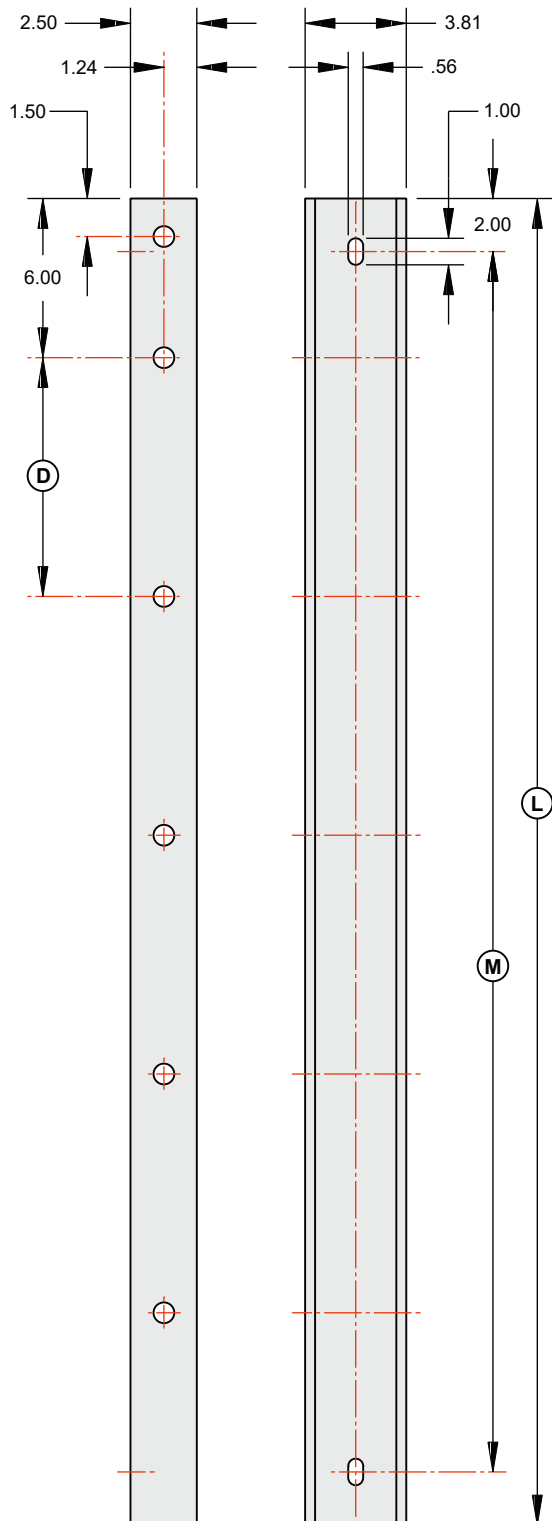
RACK ARM ORDERING & TECHNICAL INFORMATION

ARM ORDERING INFORMATION						
CATALOG NUMBER	DESCRIPTION	STANDARD CARTON				
		QUANTITY	WEIGHT (LBS.)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)
BNT-A1	1 SADDLE ARM	10	8	15.250	8.250	4.750
BNT-A2	2 SADDLE ARM	10	16	15.250	13.250	5.500
BNT-A3	3 SADDLE ARM	10	23	15.250	15.250	7.500
BNT-A4	4 SADDLE ARM	6	21	20.500	9.500	9.500
BNT-F6	6" FLAT ARM	10	12	15.750	9.750	6.125
BNT-F11	11" FLAT ARM	10	18	15.500	12.625	7.250
BNT-F16	16" FLAT ARM	10	21	17.375	15.500	7.000
BNT-F21	21" FLAT ARM	6	22	23.000	9.750	9.250
BNT-F26	26" FLAT ARM	6	27	27.750	9.625	9.125

RATED LOAD CARRYING CAPACITY			
CATALOG NUMBER	DESCRIPTION	ARM LENGTH	RATED LOAD (LBS)*
BNT-A1	1 SADDLE ARM	5"	450
BNT-A2	2 SADDLE ARM	10"	400
BNT-A3	3 SADDLE ARM	15"	350
BNT-A4	4 SADDLE ARM	20"	300
BNT-F6	6" FLAT ARM	6"	450
BNT-F11	11" FLAT ARM	11"	400
BNT-F16	16" FLAT ARM	16"	350
BNT-F21	21" FLAT ARM	21"	300
BNT-F26	26" FLAT ARM	26"	300
* Concentrated load 1" from end of arm.			



BNT-S9 STANCHIONS



STANCHION CAPACITY

Stanchion short term safety factor is 3:1 when all arms that can be accommodated on a given stanchion are at rated load.

STANCHION FEATURES & DIMENSIONS

CATALOG NUMBER	DISTANCE $\textcircled{D}$ BETWEEN ARM MOUNTING HOLES (INCHES)	MAX QUANTITY OF ARMS ACCOMMODATED	QUANTITY OF WALL MOUNTING HOLES	DIMENSIONS (INCHES)	
				$\textcircled{L}$	$\textcircled{M}$
BNT-S912A	---	1	2	14.00	10.00
BNT-S922A	9	2	2	23.00	19.00
BNT-S932A	9	3	2	32.00	28.00
BNT-S942A	9	4	2	41.00	37.00
BNT-S952A	9	5	2	50.00	46.00
BNT-S963A	9	6	3	59.00	55.00
BNT-S5892S	8.5	5	2	48.00	44.00
BNT-S5893S	8.5	3	2	31.00	27.00

- STANCHION CONFIGURATION
- QUANTITY OF WALL MOUNTING HOLES
- QUANTITY OF ARM MOUNTING HOLES
- DISTANCE BETWEEN ARMS
- S = STANCHION
- CABLE SUPPORT FAMILY

NOTE: Stanchions accommodating more arms, other distance between arms, other mounting hole locations, or other mounting bolt sizes are available. Please contact an Underground Devices Sales Engineer for further information.

STANCHION & MOUNTING HARDWARE

ORDERING INFORMATION

STANCHION ORDERING INFORMATION							
CATALOG NUMBER	DESCRIPTION	STANDARD CARTON					HARDWARE SETS REQ'D.
		QUANTITY	WEIGHT (LBS.)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	
BNT-S952A	50" STANCHION	4	43	51.000	9.375	3.625	2
BNT-S942A	41" STANCHION	4	35	42.000	9.375	3.625	2
BNT-S932A	32" STANCHION	4	28	33.000	9.375	3.625	2
BNT-S922A	23" STANCHION	8	40	47.000	9.375	3.625	2
BNT-S912A	14" STANCHION	12	36	43.000	9.375	3.625	2
BNT-S963A	59" STANCHION	4	51	60.000	9.375	3.625	3
BNT-S5892S	48" STANCHION	4	41	49.000	9.375	3.625	2
BNT-S5893S	31" STANCHION	4	27	32.000	9.375	3.625	2

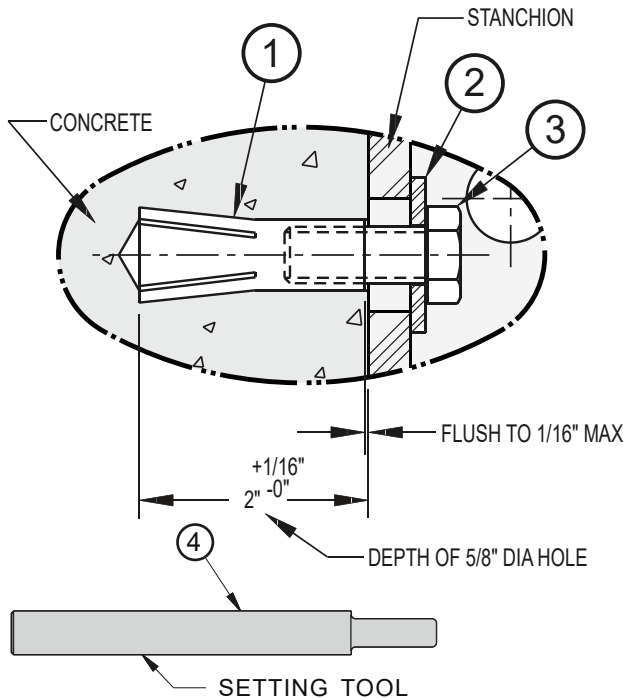
DROP-IN ANCHOR ORDERING INFORMATION							
CATALOG NUMBER	DESCRIPTION	STANDARD CARTON					
		QUANTITY	WEIGHT (LBS.)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	
FSRM-12	1/2" - 13 DROP-IN ANCHOR, 18-8 SS	40	5	5.750	4.500	2.500	
FFW-316-17-038	316 SS FLAT WASHER 0.531 ID X 1.188 OD X 0.125 THICK	80	2	4.000	3.500	2.500	
FHC-316-16-040	316 SS HEX HEAD CAP SCREW 1/2"-13 X 1 1/4"	40	4	5.750	4.500	2.500	
FRT-112	SETTING TOOL	1	1	5.500	1.000	1.000	

CROSS PIN ORDERING INFORMATION							
CATALOG NUMBER	DESCRIPTION	STANDARD CARTON					
		QUANTITY	WEIGHT (LBS.)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	
BNT-P4	4" CROSS PIN WITH COTTER PIN	40	2	11.000	4.500	4.500	
BNT-P5	5" CROSS PIN WITH COTTER PIN	80	2	4.000	3.500	2.500	
BNT-H1	HUMPED COTTER PIN	40	7	5.750	4.500	4.500	



BNT MOUNTING HARDWARE

(Drop-in Anchor Installation)



HARDWARE RECOMMENDED FOR SECURING THE BNT STANCHION TO A FINISHED CONCRETE WALL		
ITEM NO.	CATALOG NUMBER	DESCRIPTION
①	FSRM-12	1/2 - 13 DROP-IN ANCHOR MATERIAL: 18-8 Stainless Steel
②	FFW-316-17-038	FLAT WASHER 0.531 ID X 1.188 OD X 0.125 THICK MATERIAL: 316 Stainless Steel
③	FHC-316-16-040	HEX HEAD CAP SCREW 1/2-13 X 1-1/4" MATERIAL: 316 Stainless Steel
④	FRT-112	SETTING TOOL (TO INSTALL FSRM-12 ANCHOR)

ANCHOR LOAD CAPACITY:

1. Ultimate pull out capacity = 8,544 lbs. Ultimate shear capacity = 6,502 lbs.
2. Ultimate load capacity is based on 4,310 psi 3/4" crushed limestone aggregate concrete. Based on independent testing laboratory tests. Copies of reports are available upon request.
3. For load capacities in structural lightweight aggregate concrete contact Underground Devices, Inc.
4. Safe working loads for single installations under static loading should not exceed 25% of the ultimate load capacity.

GENERAL ANCHOR NOTES:

1. Caution: UDI drop-in anchors are designed to operate only when installed with UDI brand setting tools.
2. The use of a 24 to 40 ounce hammer is recommended for expanding UDI drop-in anchors.
3. Anchors should be installed with carbide tipped hammer drill bits made in accordance to ANSI B212.15-1994 specifications.
4. UDI drop-in anchors are tested to ASTM E488 and are approved and listed by agencies as required by local building codes.
5. UDI drop-in anchors are not recommended for use in new concrete which has not had sufficient time to cure.
6. UDI drop-in anchors are not recommended for use in light weight masonry such as block or brick.

HEX HEAD CAP SCREW NOTES:

1. UDI Type 316 stainless steel cap screws conform to ASTM 316F593G and ASME B18.2.1.
2. "316F593G" and the manufacturer's identification number is stamped on the head of each Type 316 stainless steel screw.
3. The manufacturing lot number is marked on each carton of fasteners and has full traceability.
4. Upon request UDI will supply written certification that a given lot of fasteners conforms to the applicable specification.

INSTALLATION GUIDELINES:

1. Be sure the surface of the concrete wall is smooth, flat and plumb.
2. It is imperative that a fastener set is installed in every elongated stanchion hole.
3. Install each drop-in anchor as shown in the drawing above and as described below:
 - A. Drill a 5/8" diameter hole 2" deep.
 - B. Blow out hole.
 - C. Drive anchor flush to 1/16" below surface of concrete.
 - D. Expand anchor with FRT-112 setting tool. Anchor is properly set when shoulder of setting tool is flush with the top of anchor.
4. Install the flat washer and tighten the cap screw just enough to attain a snug fit. Avoid high screw torque which induces compressive stress.
5. Assemble arms to the stanchion with cross pins and cotter pins.
6. For additional installation and technical information, please visit www.uddevices.com.

BNT PRODUCT FEATURES

BNT ARM FEATURES



BNT-F SERIES - FLAT ARMS

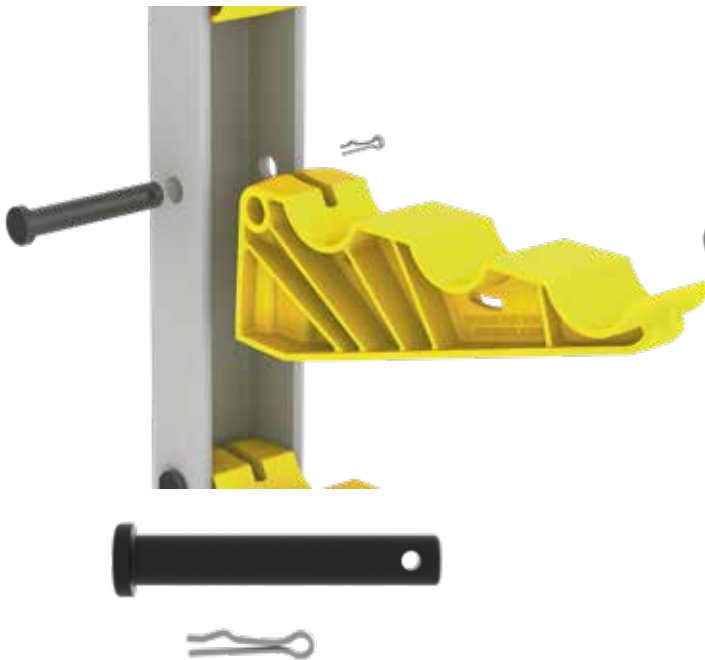
- Flat arm surface to allow for independent training of cables
- Cable tie down slots integrated into the top face of the arm
- Available in 5 different lengths from 6" to 26"



BNT-A SERIES SADDLE ARMS

- Integrated cable saddles to maintain fixed spacing between the cables
- Cable tie down slots located below each saddle of the arm
- Available with 1, 2, 3, or 4 saddles

STANCHION INSTALLATION OPTIONS



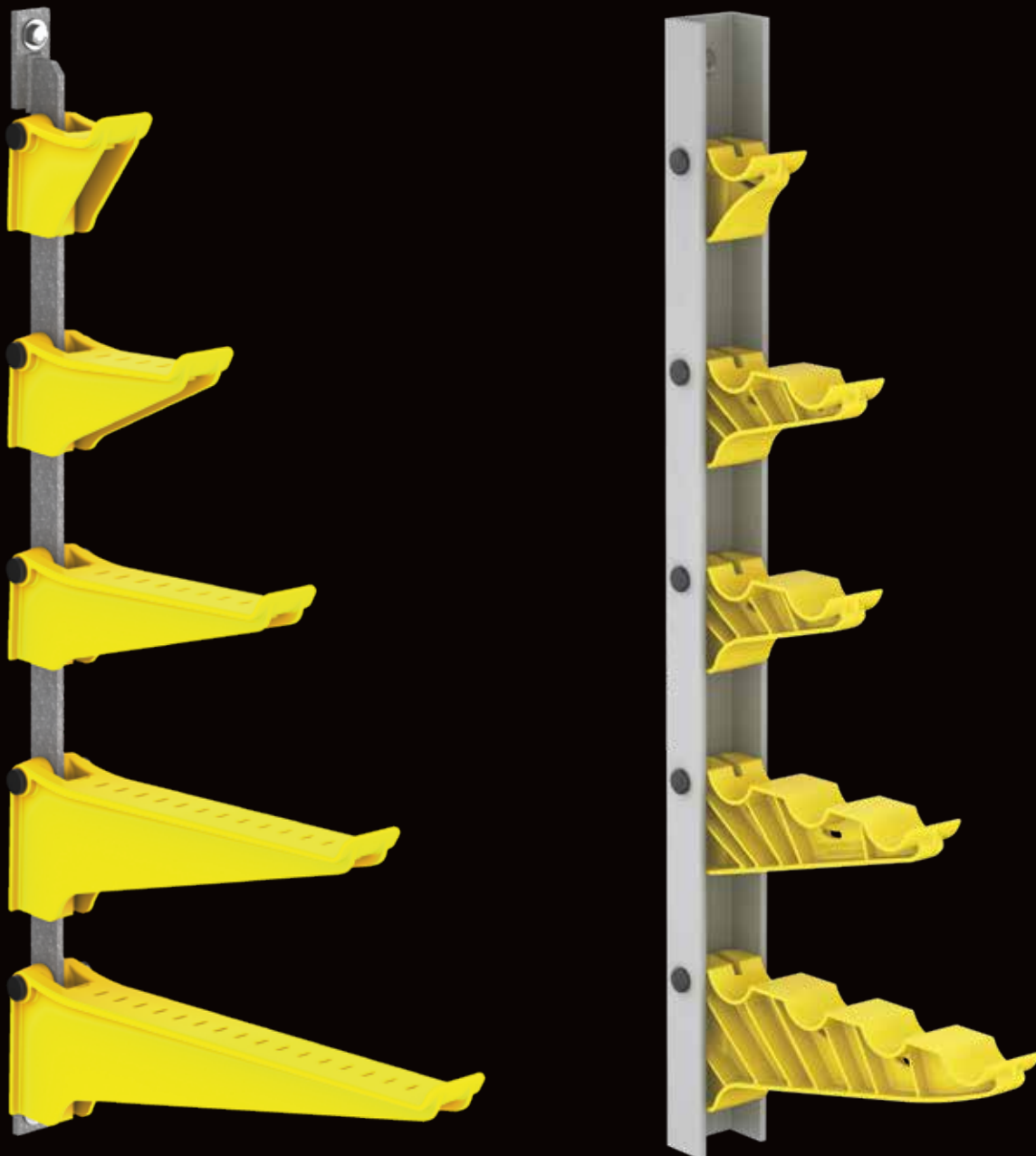
BNT-S Series Nonmetallic Stanchion
Installation Option



Steel Stanchion
Installation Option

NOTES:

- 1) 1 each BNT-H1 humped cotter pin is included with each BNT-P cross pin.
- 2) Use the BNT-P5 cross pin with BNT-S series nonmetallic stanchions.
- 3) Use the BNT-P4 cross pin with existing steel stanchions.



For a **FREE** sample:
Please call us at (800) 800-2118
-or-
Email us at info@udevices.com

LIMITED WARRANTY: UNDERGROUND DEVICES, INC. Warrants to the original purchaser that the goods manufactured by it are free from defects in material and workmanship for a period of one year from the date of purchase. Consequences of improper selection or installation of UNDERGROUND DEVICES product on any application over any period of time is the sole responsibility of the Purchaser or User. UNDERGROUND DEVICES liability is limited to replacement of, or credit for, defective products. UNDERGROUND DEVICES, INC. WILL IN NO EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

UNDERGROUND DEVICES
INCORPORATED



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NORTHBROOK, IL 60062
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These nonmetallic cable support stanchions, rack arms and components are covered by one or more of the following
Underground Devices, Inc. U.S. Patents: 8550259; 8567734; 8596590; 8733560 and 8960612.