



CREATIVE
COMPOSITES
GROUP

TECHNICAL SPECIFICATIONS

UNITED FIBERGLASS CONDUIT & ACCESSORIES

THE LEADER FOR CONDUIT, ELBOWS & ACCESSORIES



FIBERGLASS CONDUIT SYSTEMS: SUPPORT & ENGINEERING SERVICES

Design Review and Site Support Services

Services can include plan reviews, take-offs from plans, development of Bills of Material and site visits. Engineering support includes CAD layout and installation drawings for a complete utility system.

System Approach

Our approach to under bridge utilities ensures that you'll receive the highest quality products that work together as a "system". From bridge deck inserts, hangers, pull boxes, conduit and more, we match each system component to the bridge and its environment ensuring ease of installation, safety and the longest life-cycle.

Engineering Support Services

Services can include CAD layout, installation drawings, site visits and signed and sealed engineering drawings for a complete fiberglass conduit system.

Our staff services can include working with utilities, Departments of Transportation and engineers to assist with your requirements. Site visits and construction drawings are used to develop a "Scope of Work" and detailed submittal packages are provided for approvals. United Fiberglass can provide on-site training to ensure proper installations. Please contact United Fiberglass to see how our services can benefit you on your next project.

Leave Your Fiberglass Conduit Design to United Fiberglass

- More owners, engineers and contractors trust United Fiberglass for their fiberglass conduit systems than any other company.
- United Fiberglass can integrate engineering design needs with material requirements to provide a complete system's approach for your project demands.
- United Fiberglass Design Services are available by giving us a call.

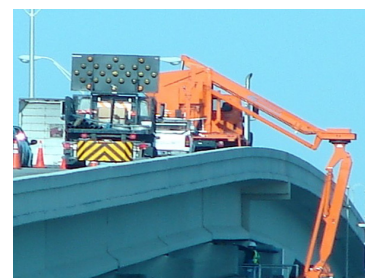
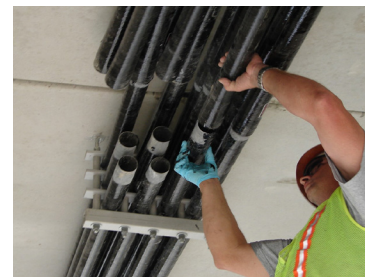


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FIBERGLASS CONDUIT PERFORMANCE FEATURES

- Longest life cycle of any conduit system: environmentally resistant, non-conductive and non-corrosive! Simply outlasts and outperforms other conduit systems!
- Lowest installed cost: Fewer supports and fittings combined with ease of installation significantly reduce labor and material costs compared to other conduit systems.
- Highest strength to weight ratio of any conduit system. Retains shape after impact and will not deform.
- Safest system to install: the light weight of fiberglass compared with PVC and steel results in increased job productivity, fewer injuries and reduced worker fatigue.

TYPE	AVERAGE WEIGHT 4" CONDUIT
FRP	19 lbs per 20 ft
STEEL	206 lbs per 20 ft
PVC	40+ lbs per 20 ft

- Increased recommended support spacing compared to PVC and steel:

TYPE	RECOMENDED SUPPORT SPACING 4" CONDUIT
FRP	Up to 15 ft
STEEL	10 ft
PVC	7 ft max

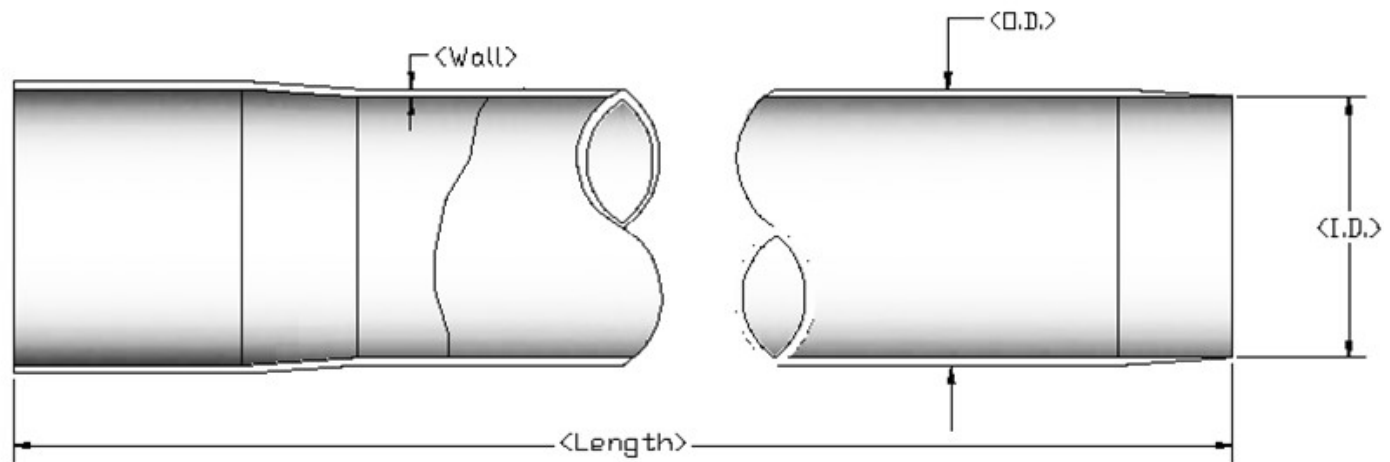
- Wide operating temperature range: -40° to 110°C, whereas PVC is only rated to 90°C. Can be installed in hot and cold environments without loss of mechanical properties. Does not sag or become brittle. Perfect for use in bridge applications.
- No cable fusion under fault conditions. Cables will not adhere to the conduit wall.
- Conductivity: Fiberglass conduit is an excellent insulating material.
- Superior heat dissipation: Fiberglass conduit dissipates heat faster than PVC and steel, allowing for higher ampacity cables.
- Low coefficient of friction: Pull cables further than PVC. Allows for fewer manholes, lower material costs and lower labor costs. Large radius fiberglass 90° sweeps will not burn through during the conductor installation phase.
- Easy-fit assembly: Conduit and fittings are easily to cut and join in the field.
- Low coefficient of thermal expansion: less than PVC and comparable to steel—results in fewer expansion joints and support hardware.
- Rodent-proof/Rot proof.
- Low toxicity: fiberglass conduit does not release harmful toxins such as chlorine and bromine when burned.
- Designed and tested to meet UL®, CSA® and NEMA requirements.

CONDUIT – STANDARD WALL & HEAVY WALL

IPS STANDARD WALL (SW) & HEAVY WALL (HW) FIBERGLASS CONDUIT

Iron Pipe Size (OD) controlled products have similar outside dimensions to PVC and steel with larger inside dimensions ID.

This allows for a greater wire or cable fill ratio.



IPS Conduit							
Size	AG Part No.	BG Part No.	ID	OD	Wall	Length	Lbs./Ft
2" SW	UF20A-SW-AG-20-1	UF20A-SW-BG-20-1	2.25"	2.39"	.070"	20'	.44
2-1/2" SW	UF25A-SW-AG-20-1	UF25A-SW-BG-20-1	2.75"	2.90"	.070"	20'	.53
3" SW	UF30A-SW-AG-20-1	UF30A-SW-BG-20-1	3.35"	3.50"	.070"	20'	.65
4" EB		UF40A-EB-BG-20-1	4.34"	4.45"	.055"	20'	.90
4" SW	UF40A-SW-AG-20-1	UF40A-SW-BG-20-1	4.34"	4.48"	.070"	20'	.95
4" HW	UF40A-HW-AG-20-1	UF40A-HW-BG-20-1	4.34"	4.53"	.095"	20'	1.07
5" EB		UF50A-EB-BG-20-1	5.38"	5.52"	.070"	20'	1.30
5" SW	UF50A-SW-AG-20-1	UF50A-SW-BG-20-1	5.38"	5.57"	.095"	20'	1.40
5" HW	UF50A-HW-AG-20-1	UF50A-HW-BG-20-1	5.38"	5.60"	.110"	20'	1.62
6" EB		UF60A-EB-BG-20-1	6.40"	6.54"	.070"	20'	1.52
6" SW	UF60A-SW-AG-20-1	UF60A-SW-BG-20-1	6.40"	6.59"	.095"	20'	1.65
6" HW	UF60A-HW-AG-20-1	UF60A-HW-BG-20-1	6.40"	6.62"	.110"	20'	1.92
8" SW	UF80A-SW-AG-20-1	UF80A-SW-BG-20-1	8.40"	8.59"	.095"	20'	2.17
8" HW	UF80A-HW-AG-20-1	UF80A-HW-BG-20-1	8.40"	8.62"	.120"	20'	2.75

Change -20 in Part Number to -10 for 10' lengths (may be supplied with coupling end). For type EB IPS conduit, please use our IPS SW fittings and elbows.

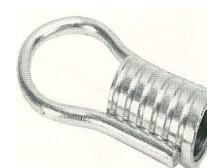
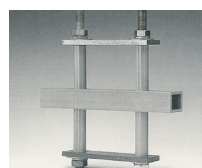
Refer to Small Diameter Conduit Section of this document for 3/4" to 1-1/2" IPS Conduit Sizes

CONDUIT COLOR CHART

Last Number in Part # Indicate color.

1	2	3	7	1-RS
BLACK	GRAY	CONCRETE	BROWN	RED STRIPE

United Fiberglass Above Ground Products meet the requirements of NEMA TC-14 or UL 2515 (replaces UL1684). Above Ground Products may also be used for concrete encasement and direct buried Below Ground applications. Below Ground Products meet the requirements of NEMA TC-14 or UL 2420 (replaces UL1684). No UL or NEMA standard for 8".



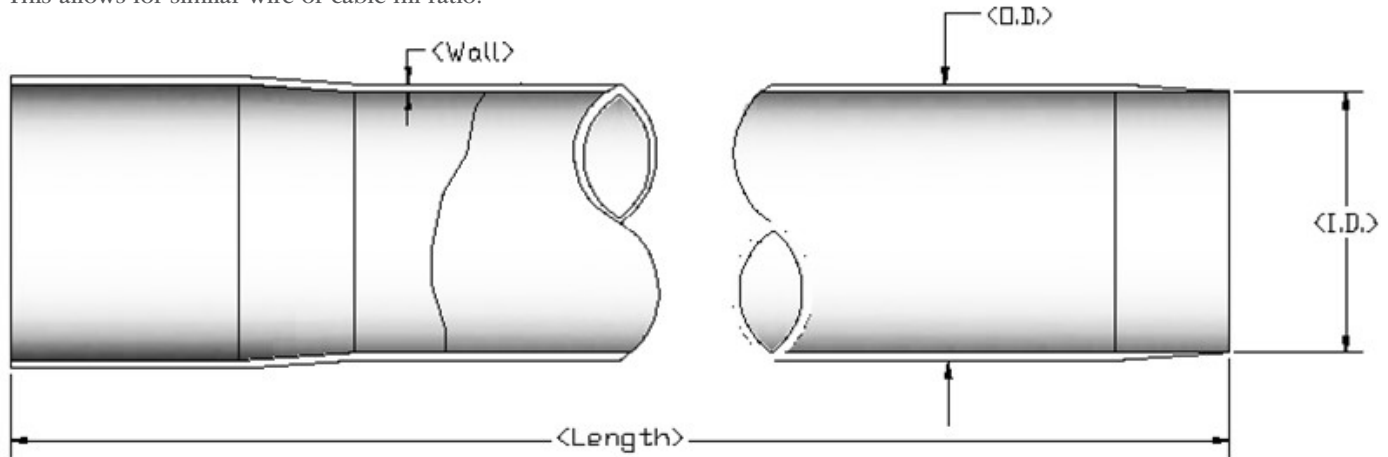
Conduit and supports are designed to work together as a system. For best system performance and ease of design, use United Fiberglass inserts, brackets and supports.

CONDUIT – STANDARD WALL & HEAVY WALL

ID STANDARD WALL (SW) & HEAVY WALL (HW) FIBERGLASS CONDUIT

Inside Diameter controlled products have similar inside dimensions to PVC and steel with smaller outside dimensions (OD).

This allows for similar wire or cable fill ratio.



ID Conduit							
Size	AG Part No.	BG Part No.	ID	OD	Wall	Length	Lbs./Ft
2" SW	UF20B-SW-AG-20-1	UF20B-SW-BG-20-1	2.00"	2.14"	.070"	20'	.39
2-1/2" SW	UF25B-SW-AG-20-1	UF25B-SW-BG-20-1	2.50"	2.64"	.070"	20'	.48
3" SW	UF30B-SW-AG-20-1	UF30B-SW-BG-20-1	3.00"	3.14"	.070"	20'	.58
3-1/2" SW	UF35B-SW-AG-20-1	UF35B-SW-BG-20-1	3.50"	3.64"	.070"	20'	.67
4" EB		UF40B-EB-BG-20-1	4.00"	4.11"	.055"	20'	.74
4" SW	UF40B-SW-AG-20-1	UF40B-SW-BG-20-1	4.00"	4.14"	.070"	20'	.77
4" HW	UF40B-HW-AG-20-1	UF40B-HW-BG-20-1	4.00"	4.19"	.095"	20'	.99
5" EB		UF50B-EB-BG-20-1	5.00"	5.14"	.070"	20'	1.20
5" SW	UF50B-SW-AG-20-1	UF50B-SW-BG-20-1	5.00"	5.19"	.095"	20'	1.30
5" HW	UF50B-HW-AG-20-1	UF50B-HW-BG-20-1	5.00"	5.22"	.110"	20'	1.51
6" EB		UF60B-EB-BG-20-1	6.00"	6.14"	.070"	20'	1.42
6" SW	UF60B-SW-AG-20-1	UF60B-SW-BG-20-1	6.00"	6.19"	.095"	20'	1.56
6" HW	UF60B-HW-AG-20-1	UF60B-HW-BG-20-1	6.00"	6.22"	.110"	20'	1.81

Change -20 in Part Number to -10 for 10' lengths (may be supplied with coupling end). For type EB ID conduit, please use our ID SW fittings and elbows.

Refer to Small Diameter Conduit Section of this document for 3/4" to 1-1/2" IPS Conduit Sizes

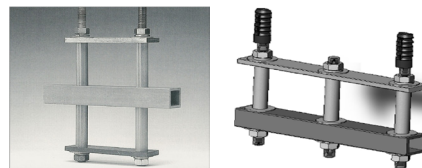
CONTACT UNITED FIBERGLASS FOR CUSTOM CONDUIT SIZES.

CONDUIT COLOR CHART

Last Number in Part # Indicate color.

1	2	3	7	1-RS
BLACK	GRAY	CONCRETE	BROWN	RED STRIPE

United Fiberglass Above Ground Products meet the requirements of NEMA TC-14 or UL 2515 (replaces UL1684). Above Ground Products may also be used for concrete encasement and direct buried Below Ground applications. Below Ground Products meet the requirements of NEMA TC-14 or UL 2420 (replaces UL1684).



Conduit and supports are designed to work together as a system. For best system performance and ease of design, use United Fiberglass inserts, brackets and supports.

CONDUIT – EXTRA HEAVY WALL

TYPE XW - BULLETRRESISTANT™

Designed for demanding applications including: NEC areas subject to physical damage, under roadways, under rail beds and under bridges. Applications where extra heavy wall (UL Type XW) is necessary to protect sensitive cables. Our filament wound epoxy fiberglass conduit has shown to prevent projectile penetration from a .45 caliber slug fired less than 20 feet! United Fiberglass BulletResistant conduit meets the latest requirements of NEMA TC-14 and UL 2515-A, Standard for Supplemental Requirements for Extra Heavy Wall Reinforced Thermosetting Resin Conduit (RTRC) and Fittings.

LIGHTWEIGHT

A 20 foot length weighs just 55 pounds compared to 200+ pounds for Sch. 40 steel.

CORROSION RESISTANCE

Fiberglass conduit is resistant to a wide variety of chemicals including salts and acids. It also contains an ultra-violet (UV) inhibitor.

THERMAL STABILITY

The operating range of -40° to +250°F. make it ideal for any outside temperature environment. It's thermal stability means less expansion and contraction and fewer expansion joints.

LOW FRICTION

The hard smooth inside diameter yields lower friction for long cable pulls.

HIGH STRENGTH

The high impact resistance and stiffness of fiberglass conduit make it a truly “tough” material. It has a higher strength to weight ration than steel.

LOW COST

The low initial cost combined with the ease of installation of a lighter material make fiberglass conduit extremely competitive with Sch. 40 steel and PVC.

MINIMUM IMPACT RESISTANCE (ft/lbs) UL Standard

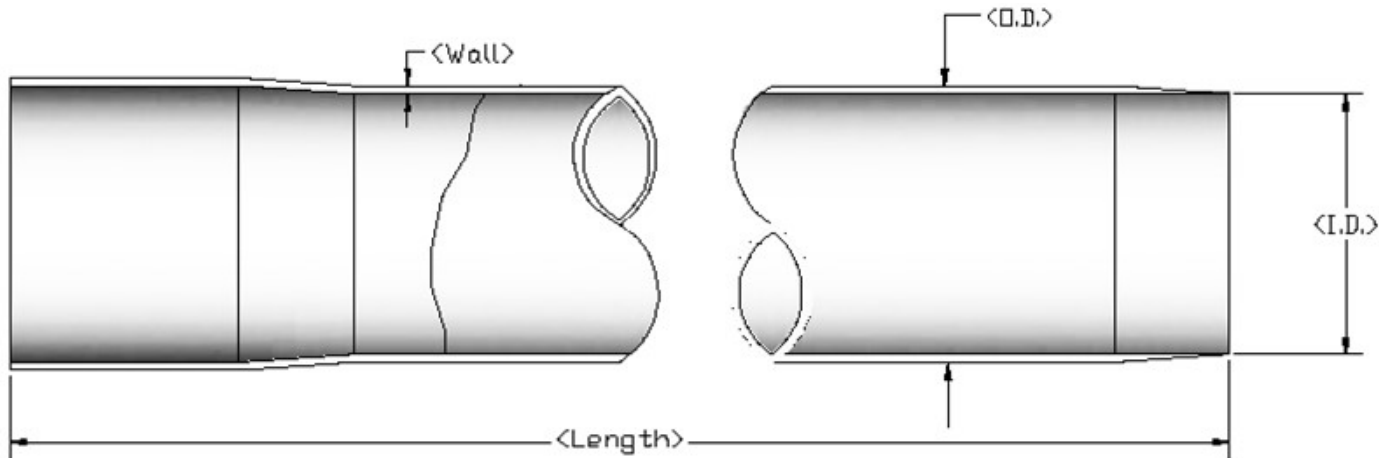
Size	73°F (23°C)	32°F (0°C)
3/4"	94	94
1"	150	150
1-1/4"	169	169
1-1/2"	188	188
2"	300	300
2-1/2"	375	375
3"	525	525
3-1/2"	525	525
4"	525	525
5"	525	525
6"	525	525

COMPRESSION TEST FORCE (lbs/ft) UL Standard

Size	N	lbf
3/4"	8900	2000
1"	8900	2000
1-1/4"	8900	2000
1-1/2"	8900	2000
2"	8900	2000
2-1/2"	8900	2000
3"	8900	2000
3-1/2"	8900	2000
4"	8900	2000
5"	8900	2000
6"	8900	2000

CONDUIT – EXTRA HEAVY WALL

TYPE XW - BULLETRRESISTANT™



Size	XW Part No.	ID	OD	Wall	Length	Lbs./Ft
3/4" XW	UF75A-XW-AG-10-1	.90" (23)	1.40" (36)	.25" (6)	10' (3m)	.74
1" XW	UF10A-XW-AG-10-1	1.16" (29)	1.66" (42)	.25" (6)	10' (3m)	.93
1-1/4" XW	UF12A-XW-AG-10-1	1.51" (39)	2.01" (51)	.25" (6)	10' (3m)	1.14
1-1/2" XW	UF15A-XW-AG-10-1	1.75" (44)	2.25" (57)	.25" (6)	10' (3m)	1.29
2" XW	UF20B-XW-AG-20-1	2.00" (57)	2.50" (64)	.25" (6)	20' (6.1m)	1.51
2-1/2" XW	UF25B-XW-AG-20-1	2.50" (64)	3.00" (76)	.25" (6)	20' (6.1m)	1.85
3" XW	UF30B-XW-AG-20-1	3.00" (76)	3.50" (89)	.25" (6)	20' (6.1m)	2.18
3-1/2" XW	UF35B-XW-AG-20-1	3.50" (89)	4.00" (102)	.25" (6)	20' (6.1m)	2.52
4" XW	UF40B-XW-AG-20-1	4.00" (102)	4.50" (114)	.25" (6)	20' (6.1m)	2.85
5" XW	UF50B-XW-AG-20-1	5.00" (127)	5.50" (140)	.25" (6)	20' (6.1m)	3.53
6" XW	UF60B-XW-AG-20-1	6.00" (152)	6.50" (165)	.25" (6)	20' (6.1m)	4.20
8" XW	UF80A-XW-AG-20-1	8.40" (213)	8.90" (226)	.25" (6)	20' (6.1m)	5.54

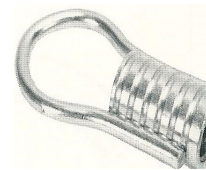
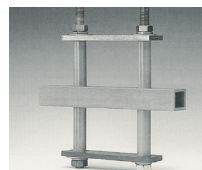
Change -20 in Part Number to -10 for 10' lengths (may be supplied with coupling end).

CONDUIT COLOR CHART

Last Number in Part # Indicate color.

1	2	3	7	1-RS
BLACK	GRAY	CONCRETE	BROWN	RED STRIPE

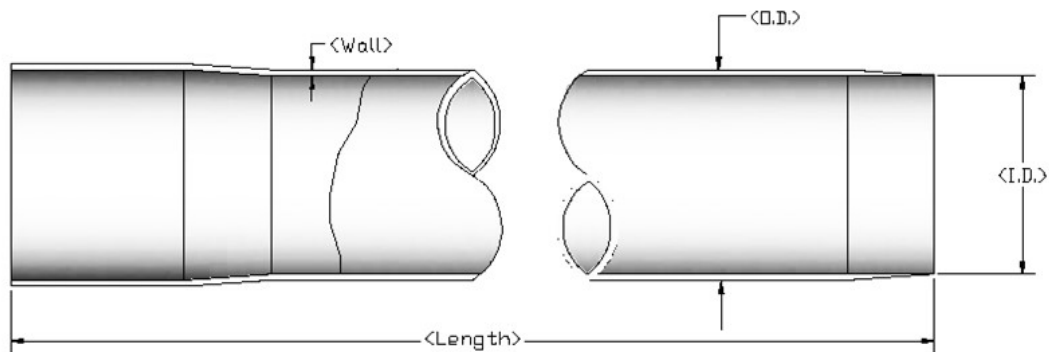
United Fiberglass Above Ground Extra Heavy Wall BulletResistant Products meet the requirements of NEMA TC-14 or UL 251 5A (replaces UL1684A). No UL or NEMA standard for 8".



Conduit and supports are designed to work together as a system. For best system performance and ease of design, use United Fiberglass inserts, brackets and supports.

CONDUIT – SMALL DIAMETER

Conduit sizes 3/4" thru 1-1/2" are generally used for circuit sizes. They come in 10' lengths with a complementary range of fittings. Standard Wall (SW) and Extra Heavy Wall (XW) BulletResistant conduits are shown here for convenience.



IPS Above Ground Standard Wall Conduit						
Size	AG Part No.	ID	OD	Wall	Length	Lbs./Ft
3/4" SW	UF75A-SW-AG-10-1	.90" (23)	1.02" (26)	.070" (2)	10' (3m)	.16
1" SW	UF10A-SW-AG-10-1	1.16" (29)	1.30" (33)	.070" (2)	10' (3m)	.20
1 1/4" SW	UF12A-SW-AG-10-1	1.51" (39)	1.65" (42)	.070" (2)	10' (3m)	.27
1 1/2" SW	UF15A-SW-AG-10-1	1.75" (44)	1.89" (48)	.070" (2)	10' (3m)	.31
2" SW	UF20A-SW-AG-20-1	2.25" (57)	2.39" (60)	.070" (2)	20' (6.1m)	.44

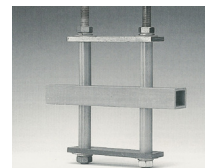
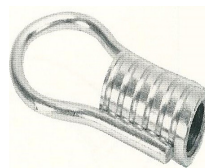
Above Ground Type XW Extra Heavy Wall						
Size	XW Part No.	ID	OD	Wall	Length	Lbs./Ft
3/4" XW	UF75A-XW-AG-10-1	.90" (23)	1.40" (36)	.25" (6)	10' (3m)	.74
1" XW	UF10A-XW-AG-10-1	1.16" (29)	1.66" (42)	.25" (6)	10' (3m)	.93
1-1/4" XW	UF12A-XW-AG-10-1	1.51" (39)	2.01" (51)	.25" (6)	10' (3m)	1.14
1-1/2" XW	UF15A-XW-AG-10-1	1.75" (44)	2.25" (57)	.25" (6)	10' (3m)	1.29
2" XW	UF20B-XW-AG-20-1	2.00" (51)	2.50" (64)	.25" (6)	20' (6.1m)	1.51

CONDUIT COLOR CHART

Last Number in Part # Indicate color.

1	2	3	7	1-RS
BLACK	GRAY	CONCRETE	BROWN	RED STRIPE

United Fiberglass Above Ground Products meet the requirements of NEMA TC-14 or UL 2515 (replaces UL1684) or UL 2515A (replaces UL 1684A). Above Ground Products may also be used for concrete encasement and direct buried Below Ground applications.



Conduit and supports are designed to work together as a system. For best system performance and ease of design, use United Fiberglass inserts, brackets and supports.

FIBERGLASS ELBOWS – ZERO BURN-THROUGH

Specified on NEC and Utility Power Projects!



Features and Benefits

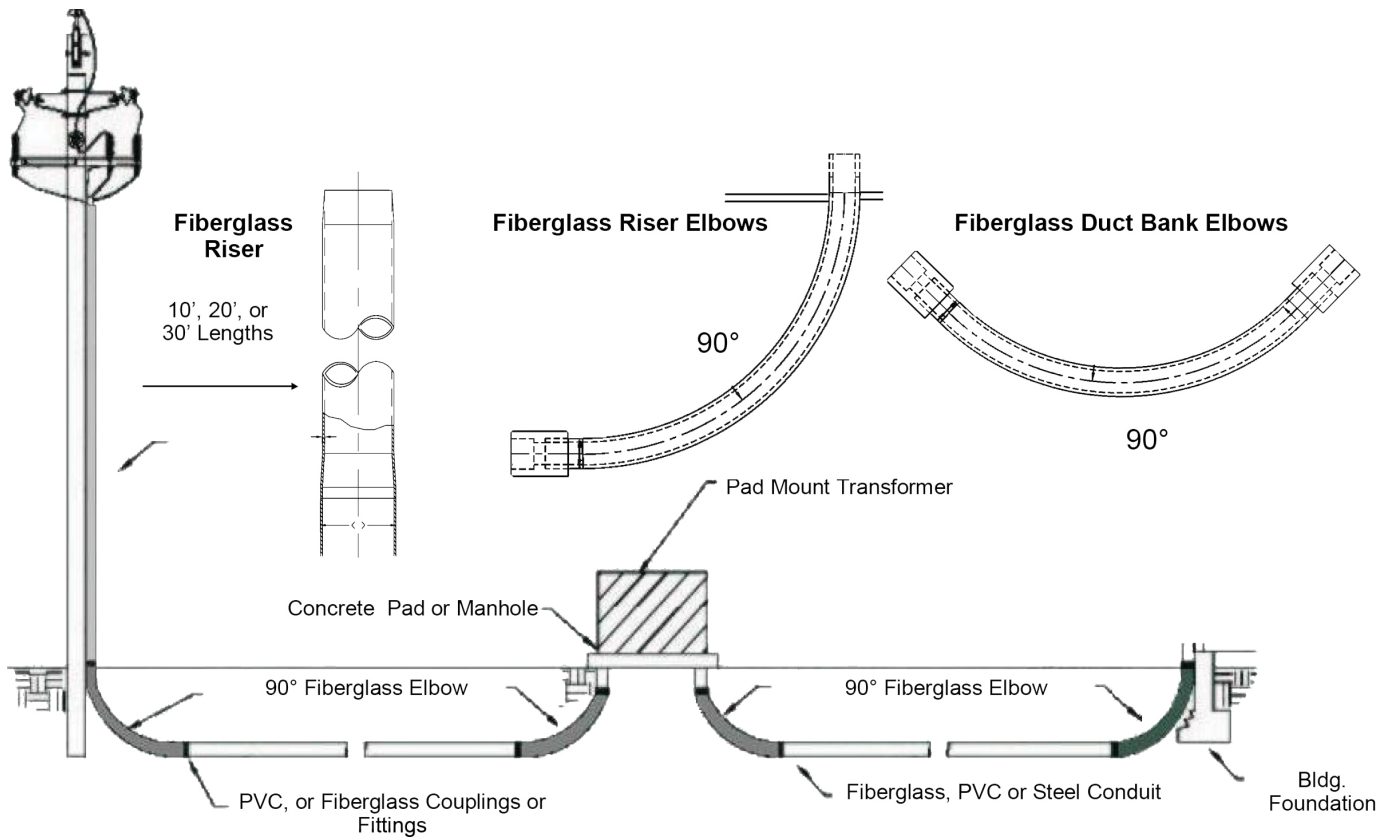
- Zero Burn-Through — our elbows minimize the risk of burn-through on high tension and long conductor pulls.
- No Taping — our elbows do not require taping when going through the concrete floor.
- No Grounding — our elbows do not require a grounding bushing or exothermic grounding.
- Reduced Co-Efficient of Friction — our elbows have a low co-efficient of friction allowing for longer pulls.
- Wide Range of Applications — our elbows are available with various installed fittings to adapt to a wide range of applications.
 - » 4" Rigid Steel Elbow = > 60 lbs
 - » 4" Fiberglass Elbow = <10 lbs
- Easy to Install — our elbows arrive with bonded PVC or fiberglass couplings or fittings.
- Wide Operating Temperature Range — our elbows are rated for use in temperatures between -40° to 230°F.
- Wide Range of Sizes — our elbows are available in sizes from 3/4" to 8". Standard angles include 11.25°, 22.5°, 30°, 45° and 90° degree. Special angles and radii are available.
- Corrosive Resistant — our elbows will not degrade in corrosive environments.
- Non-Metallic — our elbows are non-conductive and will not melt or weld to the conductor during cable fault conditions.
- Cost Effective — our elbows offer a low cost solution.
- UL, CSA, NEMA TC-14 and NEC Approved

SAVINGS

- Material Cost
- Labor Units
- System Integrity
- System Life-cycle

FIBERGLASS ELBOWS – ZERO BURN-THROUGH

Used for NEC, NFPA 70 and utility applications, the United Fiberglass line of Zero Burn-Through fiberglass elbows are manufactured and inspected for compliance to the industry's highest standards. Our inspection ensure that each and every elbow has smooth and defect free interior walls while maintaining a water tight environment. Our reinforced thermosetting resin conduit (RTRC) elbows are a cost effective solution for critical power applications.



Compare the Coefficient of Friction for United Fiberglass RTRC

Cable Type	United Fiberglass	Steel	PVC	Aluminum	HDPE	Concrete
PVC	.38	.55	.90	.25	1.90	.95
XLP	.23	.75	.90	1.50	2.00	.75
LDPE	.25	.50	.50	.62	1.70	.60
Neoprene	.53	1.60	2.60	.26	3.30	1.35
Concentric Neutral	.16	-	-	-	-	-
Armored	.16	1.60	2.60	.26	3.30	1.35

United Fiberglass elbows are optionally supplied on either end with factory bonded PVC deep socket or standard socket couplings, fiberglass couplings, or with varying combinations of PVC or fiberglass fittings.

United Fiberglass XW pole risers are manufactured with our UV resistant RTRC .250" Wall fiberglass conduit to provide additional mechanical protection against snow plows, bush hogs and other items that may damage existing risers or guards. Our pole risers are available in 10', 20' and 30' lengths.

Our elbows and pole risers are tested and rated for operation in temperatures between -40°F and 230°F. 105°C rated conductors may be used at their full operating temperature. This is an exceptional product for cold weather environments.

Above ground products may be used for concrete encasement and direct buried below ground applications in addition to above ground applications.

FIBERGLASS ELBOWS – ZERO BURN-THROUGH

90° FIBERGLASS ELBOWS W/ (2) PVC COUPLINGS



For part number of 45° elbow, replace 90 with 45. For 30° elbow, replace 90 with 30. For 22.5° elbow, replace 90 with 22. For 15° elbow, replace 90 with 15. For 11.25° elbow, replace 90 with 11.

1	2	1-RS
BLACK	GRAY	RED STRIPE

Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" IPS SW	UF75A-SW-AG-9012-E-1	UF75A-SW-AG-9018-E-1	UF75A-SW-AG-9024-E-1	UF75A-SW-AG-9036-E-1	UF75A-SW-AG-9048-E-1	UF75A-SW-AG-9060-E-1
1" IPS SW	UF10A-SW-AG-9012-E-1	UF10A-SW-AG-9018-E-1	UF10A-SW-AG-9024-E-1	UF10A-SW-AG-9036-E-1	UF10A-SW-AG-9048-E-1	UF10A-SW-AG-9060-E-1
1-1/4" IPS SW	UF12A-SW-AG-9012-E-1	UF12A-SW-AG-9018-E-1	UF12A-SW-AG-9024-E-1	UF12A-SW-AG-9036-E-1	UF12A-SW-AG-9048-E-1	UF12A-SW-AG-9060-E-1
1-1/2" IPS SW	UF15A-SW-AG-9012-E-1	UF15A-SW-AG-9018-E-1	UF15A-SW-AG-9024-E-1	UF15A-SW-AG-9036-E-1	UF15A-SW-AG-9048-E-1	UF15A-SW-AG-9060-E-1
2" IPS SW		UF20A-SW-AG-9018-E-1	UF20A-SW-AG-9024-E-1	UF20A-SW-AG-9036-E-1	UF20A-SW-AG-9048-E-1	UF20A-SW-AG-9060-E-1
2-1/2" IPS SW			UF25A-SW-AG-9024-E-1	UF25A-SW-AG-9036-E-1	UF25A-SW-AG-9048-E-1	UF25A-SW-AG-9060-E-1
3" IPS SW			UF30A-SW-AG-9024-E-1	UF30A-SW-AG-9036-E-1	UF30A-SW-AG-9048-E-1	UF30A-SW-AG-9060-E-1
3-1/2" ID SW			UF35B-SW-AG-9024-E-1	UF35B-SW-AG-9036-E-1	UF35B-SW-AG-9048-E-1	UF35B-SW-AG-9060-E-1
4" IPS HW			UF40A-HW-AG-9024-E-1	UF40A-HW-AG-9036-E-1	UF40A-HW-AG-9048-E-1	UF40A-HW-AG-9060-E-1
5" IPS HW				UF50A-HW-AG-9036-E-1	UF50A-HW-AG-9048-E-1	UF50A-HW-AG-9060-E-1
6" IPS HW				UF60A-HW-AG-9036-E-1	UF60A-HW-AG-9048-E-1	UF60A-HW-AG-9060-E-1
8" IPS HW						UF80A-HW-AG-9060-E-1

Elbow supplied as noted above. For elbow with (1) PVC coupling, replace E suffix with D. For elbow with (1) PVC coupling and (1) Fiberglass coupling, replace E suffix with DB. For elbow with (1) PVC coupling and (1) PVC Male Threaded Adapter (MTA), replace E suffix with DK. For elbow with (1) PVC coupling and (1) PVC Female Threaded Adapter (FTA), replace E suffix with DJ. Please contact United Fiberglass for additional information and availability of other radii, angles, or configurations.

45° FIBERGLASS ELBOWS W/ (2) PVC COUPLINGS



For part number of 30° elbow, replace 45 with 30. For 22.5° elbow, replace 45 with 22. For 15° elbow, replace 45 with 15. For 11.25° elbow, replace 45 with 11.

1	2	1-RS
BLACK	GRAY	RED STRIPE

Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" IPS SW	UF75A-SW-AG-9012-E-1	UF75A-SW-AG-9018-E-1	UF75A-SW-AG-9024-E-1	UF75A-SW-AG-9036-E-1	UF75A-SW-AG-9048-E-1	UF75A-SW-AG-9060-E-1
1" IPS SW	UF10A-SW-AG-9012-E-1	UF10A-SW-AG-9018-E-1	UF10A-SW-AG-9024-E-1	UF10A-SW-AG-9036-E-1	UF10A-SW-AG-9048-E-1	UF10A-SW-AG-9060-E-1
1-1/4" IPS SW	UF12A-SW-AG-9012-E-1	UF12A-SW-AG-9018-E-1	UF12A-SW-AG-9024-E-1	UF12A-SW-AG-9036-E-1	UF12A-SW-AG-9048-E-1	UF12A-SW-AG-9060-E-1
1-1/2" IPS SW	UF15A-SW-AG-9012-E-1	UF15A-SW-AG-9018-E-1	UF15A-SW-AG-9024-E-1	UF15A-SW-AG-9036-E-1	UF15A-SW-AG-9048-E-1	UF15A-SW-AG-9060-E-1
2" IPS SW		UF20A-SW-AG-9018-E-1	UF20A-SW-AG-9024-E-1	UF20A-SW-AG-9036-E-1	UF20A-SW-AG-9048-E-1	UF20A-SW-AG-9060-E-1
2-1/2" IPS SW			UF25A-SW-AG-9024-E-1	UF25A-SW-AG-9036-E-1	UF25A-SW-AG-9048-E-1	UF25A-SW-AG-9060-E-1
3" IPS SW			UF30A-SW-AG-9024-E-1	UF30A-SW-AG-9036-E-1	UF30A-SW-AG-9048-E-1	UF30A-SW-AG-9060-E-1
3-1/2" ID SW			UF35B-SW-AG-9024-E-1	UF35B-SW-AG-9036-E-1	UF35B-SW-AG-9048-E-1	UF35B-SW-AG-9060-E-1
4" IPS HW			UF40A-HW-AG-9024-E-1	UF40A-HW-AG-9036-E-1	UF40A-HW-AG-9048-E-1	UF40A-HW-AG-9060-E-1
5" IPS HW				UF50A-HW-AG-9036-E-1	UF50A-HW-AG-9048-E-1	UF50A-HW-AG-9060-E-1
6" IPS HW				UF60A-HW-AG-9036-E-1	UF60A-HW-AG-9048-E-1	UF60A-HW-AG-9060-E-1
8" IPS HW						UF80A-HW-AG-9060-E-1

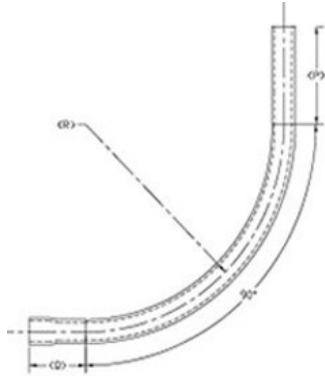
Elbow supplied as noted above. For elbow with (1) PVC coupling, replace E suffix with D. For elbow with (1) PVC coupling and (1) Fiberglass coupling, replace E suffix with DB. For elbow with (1) PVC coupling and (1) PVC Male Threaded Adapter (MTA), replace E suffix with DK. For elbow with (1) PVC coupling and (1) PVC Female Threaded Adapter (FTA), replace E suffix with DJ. Please contact United Fiberglass for additional information and availability of other radii, angles, or configurations.

Above Ground Products may be used for concrete encasement and direct buried Below Ground applications in addition to Above Ground applications.

FIBERGLASS ELBOWS – ZERO BURN-THROUGH

FIBERGLASS ELBOW RISER

Elbow risers provide a 30" long tangent on one end for increased vertical height when transitioning from below ground.



Size	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-AG-R9036-A-1	UF20A-SW-AG-R9048-A-1	UF20A-SW-AG-R9060-A-1
2-1/2" SW	UF25A-SW-AG-R9036-A-1	UF25A-SW-AG-R9048-A-1	UF25A-SW-AG-R9060-A-1
3" SW	UF30A-SW-AG-R9036-A-1	UF30A-SW-AG-R9048-A-1	UF30A-SW-AG-R9060-A-1
4" SW	UF40A-SW-AG-R9036-A-1	UF40A-SW-AG-R9048-A-1	UF40A-SW-AG-R9060-A-1
4" HW	UF40A-HW-AG-R9036-A-1	UF40A-HW-AG-R9048-A-1	UF40A-HW-AG-R9060-A-1
5" SW	UF50A-SW-AG-R9036-A-1	UF50A-SW-AG-R9048-A-1	UF50A-SW-AG-R9060-A-1
5" HW	UF50A-HW-AG-R9036-A-1	UF50A-HW-AG-R9048-A-1	UF50A-HW-AG-R9060-A-1
6" SW	UF60A-SW-AG-R9036-A-1	UF60A-SW-AG-R9048-A-1	UF60A-SW-AG-R9060-A-1
6" HW	UF60A-HW-AG-R9036-A-1	UF60A-HW-AG-R9048-A-1	UF60A-HW-AG-R9060-A-1

Custom tangent lengths available.

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For (1) PVC coupling use (D). For (2) PVC couplings use (E). For special radius elbows please contact United Fiberglass.

Above Ground Products may be used for concrete encasement and direct buried Below Ground applications in addition to Above Ground applications.

POLE RISERS

Pole risers provide cable protection on utility poles.



Size	10' Length	20' Length	Coupling ID	Conduit OD	Wall
2" SW	UF20A-SW-AG-710-1	UF20A-SW-AG-720-1	2.38	2.39	.070
2-1/2" SW	UF25A-SW-AG-710-1	UF25A-SW-AG-720-1	2.88	2.90	.070
3" SW	UF30A-SW-AG-710-1	UF30A-SW-AG-720-1	3.50	3.52	.070
4" HW	UF40A-HW-AG-710-1	UF40A-HW-AG-720-1	4.50	4.52	.095
5" HW	UF50A-HW-AG-710-1	UF50A-HW-AG-720-1	5.56	5.60	.110
6" HW	UF60A-HW-AG-710-1	UF60A-HW-AG-720-1	6.63	6.60	.110

BulletResistant

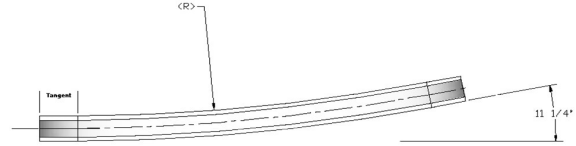
Size	10' Length	20' Length	Coupling ID	Conduit OD	Wall
3" XW	UF30B-XW-AG-710-1	UF30B-XW-AG-720-1	3.50	3.50	.250
4" XW	UF40B-XW-AG-710-1	UF40B-XW-AG-720-1	4.50	4.50	.250
5" XW	UF50B-XW-AG-710-1	UF50B-XW-AG-720-1	5.56	5.50	.250

Pole risers have one PVC deep socket coupling installed instead of a conduit bell.

FIBERGLASS ELBOWS – STD. WALL & HEAVY WALL

11.25° FIBERGLASS ELBOWS

TANGENT = 6"



IPS Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-AG-1118-A-1	UF20A-SW-AG-1124-A-1	UF20A-SW-AG-1136-A-1	UF20A-SW-AG-1148-A-1	UF20A-SW-AG-1160-A-1
2-1/2" SW		UF25A-SW-AG-1124-A-1	UF25A-SW-AG-1136-A-1	UF25A-SW-AG-1148-A-1	UF25A-SW-AG-1160-A-1
3" SW		UF30A-SW-AG-1124-A-1	UF30A-SW-AG-1136-A-1	UF30A-SW-AG-1148-A-1	UF30A-SW-AG-1160-A-1
4" SW		UF40A-SW-AG-1124-A-1	UF40A-SW-AG-1136-A-1	UF40A-SW-AG-1148-A-1	UF40A-SW-AG-1160-A-1
4" HW		UF40A-HW-AG-1124-A-1	UF40A-HW-AG-1136-A-1	UF40A-HW-AG-1148-A-1	UF40A-HW-AG-1160-A-1
5" SW			UF50A-SW-AG-1136-A-1	UF50A-SW-AG-1148-A-1	UF50A-SW-AG-1160-A-1
5" HW			UF50A-HW-AG-1136-A-1	UF50A-HW-AG-1148-A-1	UF50A-HW-AG-1160-A-1
6" SW			UF60A-SW-AG-1136-A-1	UF60A-SW-AG-1148-A-1	UF60A-SW-AG-1160-A-1
6" HW			UF60A-HW-AG-1136-A-1	UF60A-HW-AG-1148-A-1	UF60A-HW-AG-1160-A-1
8" SW					UF80A-SW-AG-1160-A-1
8" HW					UF80A-HW-AG-1160-A-1

IPS Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-BG-1118-A-1	UF20A-SW-BG-1124-A-1	UF20A-SW-BG-1136-A-1	UF20A-SW-BG-1148-A-1	UF20A-SW-BG-1160-A-1
2-1/2" SW		UF25A-SW-BG-1124-A-1	UF25A-SW-BG-1136-A-1	UF25A-SW-BG-1148-A-1	UF25A-SW-BG-1160-A-1
3" SW		UF30A-SW-BG-1124-A-1	UF30A-SW-BG-1136-A-1	UF30A-SW-BG-1148-A-1	UF30A-SW-BG-1160-A-1
4" SW		UF40A-SW-BG-1124-A-1	UF40A-SW-BG-1136-A-1	UF40A-SW-BG-1148-A-1	UF40A-SW-BG-1160-A-1
4" HW		UF40A-HW-BG-1124-A-1	UF40A-HW-BG-1136-A-1	UF40A-HW-BG-1148-A-1	UF40A-HW-BG-1160-A-1
5" SW			UF50A-SW-BG-1136-A-1	UF50A-SW-BG-1148-A-1	UF50A-SW-BG-1160-A-1
5" HW			UF50A-HW-BG-1136-A-1	UF50A-HW-BG-1148-A-1	UF50A-HW-BG-1160-A-1
6" SW			UF60A-SW-BG-1136-A-1	UF60A-SW-BG-1148-A-1	UF60A-SW-BG-1160-A-1
6" HW			UF60A-HW-BG-1136-A-1	UF60A-HW-BG-1148-A-1	UF60A-HW-BG-1160-A-1
8" SW					UF80A-SW-BG-1160-A-1
8" HW					UF80A-HW-BG-1160-A-1

ID Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-AG-1118-A-1	UF20B-SW-AG-1124-A-1	UF20B-SW-AG-1136-A-1	UF20B-SW-AG-1148-A-1	UF20B-SW-AG-1160-A-1
2-1/2" SW		UF25B-SW-AG-1124-A-1	UF25B-SW-AG-1136-A-1	UF25B-SW-AG-1148-A-1	UF25B-SW-AG-1160-A-1
3" SW		UF30B-SW-AG-1124-A-1	UF30B-SW-AG-1136-A-1	UF30B-SW-AG-1148-A-1	UF30B-SW-AG-1160-A-1
3-1/2" SW		UF35B-SW-AG-1124-A-1	UF35B-SW-AG-1136-A-1	UF35B-SW-AG-1148-A-1	UF35B-SW-AG-1160-A-1
4" SW		UF40B-SW-AG-1124-A-1	UF40B-SW-AG-1136-A-1	UF40B-SW-AG-1148-A-1	UF40B-SW-AG-1160-A-1
4" HW		UF40B-HW-AG-1124-A-1	UF40B-HW-AG-1136-A-1	UF40B-HW-AG-1148-A-1	UF40B-HW-AG-1160-A-1
5" SW			UF50B-SW-AG-1136-A-1	UF50B-SW-AG-1148-A-1	UF50B-SW-AG-1160-A-1
5" HW			UF50B-HW-AG-1136-A-1	UF50B-HW-AG-1148-A-1	UF50B-HW-AG-1160-A-1
6" SW			UF60B-SW-AG-1136-A-1	UF60B-SW-AG-1148-A-1	UF60B-SW-AG-1160-A-1
6" HW			UF60B-HW-AG-1136-A-1	UF60B-HW-AG-1148-A-1	UF60B-HW-AG-1160-A-1

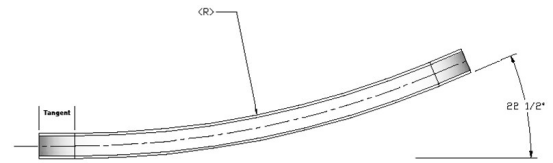
ID Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-BG-1118-A-1	UF20B-SW-BG-1124-A-1	UF20B-SW-BG-1136-A-1	UF20B-SW-BG-1148-A-1	UF20B-SW-BG-1160-A-1
2-1/2" SW		UF25B-SW-BG-1124-A-1	UF25B-SW-BG-1136-A-1	UF25B-SW-BG-1148-A-1	UF25B-SW-BG-1160-A-1
3" SW		UF30B-SW-BG-1124-A-1	UF30B-SW-BG-1136-A-1	UF30B-SW-BG-1148-A-1	UF30B-SW-BG-1160-A-1
3-1/2" SW		UF35B-SW-BG-1124-A-1	UF35B-SW-BG-1136-A-1	UF35B-SW-BG-1148-A-1	UF35B-SW-BG-1160-A-1
4" SW		UF40B-SW-BG-1124-A-1	UF40B-SW-BG-1136-A-1	UF40B-SW-BG-1148-A-1	UF40B-SW-BG-1160-A-1
4" HW		UF40B-HW-BG-1124-A-1	UF40B-HW-BG-1136-A-1	UF40B-HW-BG-1148-A-1	UF40B-HW-BG-1160-A-1
5" SW			UF50B-SW-BG-1136-A-1	UF50B-SW-BG-1148-A-1	UF50B-SW-BG-1160-A-1
5" HW			UF50B-HW-BG-1136-A-1	UF50B-HW-BG-1148-A-1	UF50B-HW-BG-1160-A-1
6" SW			UF60B-SW-BG-1136-A-1	UF60B-SW-BG-1148-A-1	UF60B-SW-BG-1160-A-1
6" HW			UF60B-HW-BG-1136-A-1	UF60B-HW-BG-1148-A-1	UF60B-HW-BG-1160-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For two PVC couplings on IPS elbows use (E) or see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass.

FIBERGLASS ELBOWS – STD. WALL & HEAVY WALL

22.5° FIBERGLASS ELBOWS

TANGENT = 6"



IPS Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-AG-2218-A-1	UF20A-SW-AG-2224-A-1	UF20A-SW-AG-2236-A-1	UF20A-SW-AG-2248-A-1	UF20A-SW-AG-2260-A-1
2-1/2" SW		UF25A-SW-AG-2224-A-1	UF25A-SW-AG-2236-A-1	UF25A-SW-AG-2248-A-1	UF25A-SW-AG-2260-A-1
3" SW		UF30A-SW-AG-2224-A-1	UF30A-SW-AG-2236-A-1	UF30A-SW-AG-2248-A-1	UF30A-SW-AG-2260-A-1
4" SW		UF40A-SW-AG-2224-A-1	UF40A-SW-AG-2236-A-1	UF40A-SW-AG-2248-A-1	UF40A-SW-AG-2260-A-1
4" HW		UF40A-HW-AG-2224-A-1	UF40A-HW-AG-2236-A-1	UF40A-HW-AG-2248-A-1	UF40A-HW-AG-2260-A-1
5" SW			UF50A-SW-AG-2236-A-1	UF50A-SW-AG-2248-A-1	UF50A-SW-AG-2260-A-1
5" HW			UF50A-HW-AG-2236-A-1	UF50A-HW-AG-2248-A-1	UF50A-HW-AG-2260-A-1
6" SW			UF60A-SW-AG-2236-A-1	UF60A-SW-AG-2248-A-1	UF60A-SW-AG-2260-A-1
6" HW			UF60A-HW-AG-2236-A-1	UF60A-HW-AG-2248-A-1	UF60A-HW-AG-2260-A-1
8" SW					UF80A-SW-AG-2260-A-1
8" HW					UF80A-HW-AG-2260-A-1

IPS Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-BG-2218-A-1	UF20A-SW-BG-2224-A-1	UF20A-SW-BG-2236-A-1	UF20A-SW-BG-2248-A-1	UF20A-SW-BG-2260-A-1
2-1/2" SW		UF25A-SW-BG-2224-A-1	UF25A-SW-BG-2236-A-1	UF25A-SW-BG-2248-A-1	UF25A-SW-BG-2260-A-1
3" SW		UF30A-SW-BG-2224-A-1	UF30A-SW-BG-2236-A-1	UF30A-SW-BG-2248-A-1	UF30A-SW-BG-2260-A-1
4" SW		UF40A-SW-BG-2224-A-1	UF40A-SW-BG-2236-A-1	UF40A-SW-BG-2248-A-1	UF40A-SW-BG-2260-A-1
4" HW		UF40A-HW-BG-2224-A-1	UF40A-HW-BG-2236-A-1	UF40A-HW-BG-2248-A-1	UF40A-HW-BG-2260-A-1
5" SW			UF50A-SW-BG-2236-A-1	UF50A-SW-BG-2248-A-1	UF50A-SW-BG-2260-A-1
5" HW			UF50A-HW-BG-2236-A-1	UF50A-HW-BG-2248-A-1	UF50A-HW-BG-2260-A-1
6" SW			UF60A-SW-BG-2236-A-1	UF60A-SW-BG-2248-A-1	UF60A-SW-BG-2260-A-1
6" HW			UF60A-HW-BG-2236-A-1	UF60A-HW-BG-2248-A-1	UF60A-HW-BG-2260-A-1
8" SW					UF80A-SW-BG-2260-A-1
8" HW					UF80A-HW-BG-2260-A-1

ID Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-AG-2218-A-1	UF20B-SW-AG-2224-A-1	UF20B-SW-AG-2236-A-1	UF20B-SW-AG-2248-A-1	UF20B-SW-AG-2260-A-1
2-1/2" SW		UF25B-SW-AG-2224-A-1	UF25B-SW-AG-2236-A-1	UF25B-SW-AG-2248-A-1	UF25B-SW-AG-2260-A-1
3" SW		UF30B-SW-AG-2224-A-1	UF30B-SW-AG-2236-A-1	UF30B-SW-AG-2248-A-1	UF30B-SW-AG-2260-A-1
3-1/2" SW		UF35B-SW-AG-2224-A-1	UF35B-SW-AG-2236-A-1	UF35B-SW-AG-2248-A-1	UF35B-SW-AG-2260-A-1
4" SW		UF40B-SW-AG-2224-A-1	UF40B-SW-AG-2236-A-1	UF40B-SW-AG-2248-A-1	UF40B-SW-AG-2260-A-1
4" HW		UF40B-HW-AG-2224-A-1	UF40B-HW-AG-2236-A-1	UF40B-HW-AG-2248-A-1	UF40B-HW-AG-2260-A-1
5" SW			UF50B-SW-AG-2236-A-1	UF50B-SW-AG-2248-A-1	UF50B-SW-AG-2260-A-1
5" HW			UF50B-HW-AG-2236-A-1	UF50B-HW-AG-2248-A-1	UF50B-HW-AG-2260-A-1
6" SW			UF60B-SW-AG-2236-A-1	UF60B-SW-AG-2248-A-1	UF60B-SW-AG-2260-A-1
6" HW			UF60B-HW-AG-2236-A-1	UF60B-HW-AG-2248-A-1	UF60B-HW-AG-2260-A-1

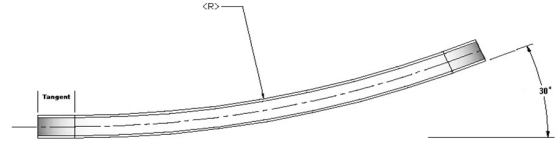
ID Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-BG-2218-A-1	UF20B-SW-BG-2224-A-1	UF20B-SW-BG-2236-A-1	UF20B-SW-BG-2248-A-1	UF20B-SW-BG-2260-A-1
2-1/2" SW		UF25B-SW-BG-2224-A-1	UF25B-SW-BG-2236-A-1	UF25B-SW-BG-2248-A-1	UF25B-SW-BG-2260-A-1
3" SW		UF30B-SW-BG-2224-A-1	UF30B-SW-BG-2236-A-1	UF30B-SW-BG-2248-A-1	UF30B-SW-BG-2260-A-1
3-1/2" SW		UF35B-SW-BG-2224-A-1	UF35B-SW-BG-2236-A-1	UF35B-SW-BG-2248-A-1	UF35B-SW-BG-2260-A-1
4" SW		UF40B-SW-BG-2224-A-1	UF40B-SW-BG-2236-A-1	UF40B-SW-BG-2248-A-1	UF40B-SW-BG-2260-A-1
4" HW		UF40B-HW-BG-2224-A-1	UF40B-HW-BG-2236-A-1	UF40B-HW-BG-2248-A-1	UF40B-HW-BG-2260-A-1
5" SW			UF50B-SW-BG-2236-A-1	UF50B-SW-BG-2248-A-1	UF50B-SW-BG-2260-A-1
5" HW			UF50B-HW-BG-2236-A-1	UF50B-HW-BG-2248-A-1	UF50B-HW-BG-2260-A-1
6" SW			UF60B-SW-BG-2236-A-1	UF60B-SW-BG-2248-A-1	UF60B-SW-BG-2260-A-1
6" HW			UF60B-HW-BG-2236-A-1	UF60B-HW-BG-2248-A-1	UF60B-HW-BG-2260-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For two PVC couplings on IPS elbows use (E) or see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass.

FIBERGLASS ELBOWS – STD. WALL & HEAVY WALL

30° FIBERGLASS ELBOWS

TANGENT = 6"



IPS Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-AG-3018-A-1	UF20A-SW-AG-3024-A-1	UF20A-SW-AG-3036-A-1	UF20A-SW-AG-3048-A-1	UF20A-SW-AG-3060-A-1
2-1/2" SW		UF25A-SW-AG-3024-A-1	UF25A-SW-AG-3036-A-1	UF25A-SW-AG-3048-A-1	UF25A-SW-AG-3060-A-1
3" SW		UF30A-SW-AG-3024-A-1	UF30A-SW-AG-3036-A-1	UF30A-SW-AG-3048-A-1	UF30A-SW-AG-3060-A-1
4" SW		UF40A-SW-AG-3024-A-1	UF40A-SW-AG-3036-A-1	UF40A-SW-AG-3048-A-1	UF40A-SW-AG-3060-A-1
4" HW		UF40A-HW-AG-3024-A-1	UF40A-HW-AG-3036-A-1	UF40A-HW-AG-3048-A-1	UF40A-HW-AG-3060-A-1
5" SW			UF50A-SW-AG-3036-A-1	UF50A-SW-AG-3048-A-1	UF50A-SW-AG-3060-A-1
5" HW			UF50A-HW-AG-3036-A-1	UF50A-HW-AG-3048-A-1	UF50A-HW-AG-3060-A-1
6" SW			UF60A-SW-AG-3036-A-1	UF60A-SW-AG-3048-A-1	UF60A-SW-AG-3060-A-1
6" HW			UF60A-HW-AG-3036-A-1	UF60A-HW-AG-3048-A-1	UF60A-HW-AG-3060-A-1
8" SW					UF80A-SW-AG-3060-A-1
8" HW					UF80A-HW-AG-3060-A-1

IPS Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-BG-3018-A-1	UF20A-SW-BG-3024-A-1	UF20A-SW-BG-3036-A-1	UF20A-SW-BG-3048-A-1	UF20A-SW-BG-3060-A-1
2-1/2" SW		UF25A-SW-BG-3024-A-1	UF25A-SW-BG-3036-A-1	UF25A-SW-BG-3048-A-1	UF25A-SW-BG-3060-A-1
3" SW		UF30A-SW-BG-3024-A-1	UF30A-SW-BG-3036-A-1	UF30A-SW-BG-3048-A-1	UF30A-SW-BG-3060-A-1
4" SW		UF40A-SW-BG-3024-A-1	UF40A-SW-BG-3036-A-1	UF40A-SW-BG-3048-A-1	UF40A-SW-BG-3060-A-1
4" HW		UF40A-HW-BG-3024-A-1	UF40A-HW-BG-3036-A-1	UF40A-HW-BG-3048-A-1	UF40A-HW-BG-3060-A-1
5" SW			UF50A-SW-BG-3036-A-1	UF50A-SW-BG-3048-A-1	UF50A-SW-BG-3060-A-1
5" HW			UF50A-HW-BG-3036-A-1	UF50A-HW-BG-3048-A-1	UF50A-HW-BG-3060-A-1
6" SW			UF60A-SW-BG-3036-A-1	UF60A-SW-BG-3048-A-1	UF60A-SW-BG-3060-A-1
6" HW			UF60A-HW-BG-3036-A-1	UF60A-HW-BG-3048-A-1	UF60A-HW-BG-3060-A-1
8" SW					UF80A-SW-BG-3060-A-1
8" HW					UF80A-HW-BG-3060-A-1

ID Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-AG-3018-A-1	UF20B-SW-AG-3024-A-1	UF20B-SW-AG-3036-A-1	UF20B-SW-AG-3048-A-1	UF20B-SW-AG-3060-A-1
2-1/2" SW		UF25B-SW-AG-3024-A-1	UF25B-SW-AG-3036-A-1	UF25B-SW-AG-3048-A-1	UF25B-SW-AG-3060-A-1
3" SW		UF30B-SW-AG-3024-A-1	UF30B-SW-AG-3036-A-1	UF30B-SW-AG-3048-A-1	UF30B-SW-AG-3060-A-1
3-1/2" SW		UF35B-SW-AG-3024-A-1	UF35B-SW-AG-3036-A-1	UF35B-SW-AG-3048-A-1	UF35B-SW-AG-3060-A-1
4" SW		UF40B-SW-AG-3024-A-1	UF40B-SW-AG-3036-A-1	UF40B-SW-AG-3048-A-1	UF40B-SW-AG-3060-A-1
4" HW		UF40B-HW-AG-3024-A-1	UF40B-HW-AG-3036-A-1	UF40B-HW-AG-3048-A-1	UF40B-HW-AG-3060-A-1
5" SW			UF50B-SW-AG-3036-A-1	UF50B-SW-AG-3048-A-1	UF50B-SW-AG-3060-A-1
5" HW			UF50B-HW-AG-3036-A-1	UF50B-HW-AG-3048-A-1	UF50B-HW-AG-3060-A-1
6" SW			UF60B-SW-AG-3036-A-1	UF60B-SW-AG-3048-A-1	UF60B-SW-AG-3060-A-1
6" HW			UF60B-HW-AG-3036-A-1	UF60B-HW-AG-3048-A-1	UF60B-HW-AG-3060-A-1

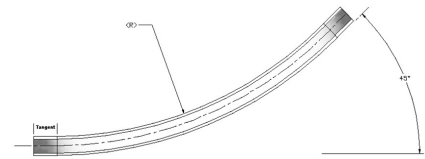
ID Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-BG-3018-A-1	UF20B-SW-BG-3024-A-1	UF20B-SW-BG-3036-A-1	UF20B-SW-BG-3048-A-1	UF20B-SW-BG-3060-A-1
2-1/2" SW		UF25B-SW-BG-3024-A-1	UF25B-SW-BG-3036-A-1	UF25B-SW-BG-3048-A-1	UF25B-SW-BG-3060-A-1
3" SW		UF30B-SW-BG-3024-A-1	UF30B-SW-BG-3036-A-1	UF30B-SW-BG-3048-A-1	UF30B-SW-BG-3060-A-1
3-1/2" SW		UF35B-SW-BG-3024-A-1	UF35B-SW-BG-3036-A-1	UF35B-SW-BG-3048-A-1	UF35B-SW-BG-3060-A-1
4" SW		UF40B-SW-BG-3024-A-1	UF40B-SW-BG-3036-A-1	UF40B-SW-BG-3048-A-1	UF40B-SW-BG-3060-A-1
4" HW		UF40B-HW-BG-3024-A-1	UF40B-HW-BG-3036-A-1	UF40B-HW-BG-3048-A-1	UF40B-HW-BG-3060-A-1
5" SW			UF50B-SW-BG-3036-A-1	UF50B-SW-BG-3048-A-1	UF50B-SW-BG-3060-A-1
5" HW			UF50B-HW-BG-3036-A-1	UF50B-HW-BG-3048-A-1	UF50B-HW-BG-3060-A-1
6" SW			UF60B-SW-BG-3036-A-1	UF60B-SW-BG-3048-A-1	UF60B-SW-BG-3060-A-1
6" HW			UF60B-HW-BG-3036-A-1	UF60B-HW-BG-3048-A-1	UF60B-HW-BG-3060-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For two PVC couplings on IPS elbows use (E) or see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass.

FIBERGLASS ELBOWS – STD. WALL & HEAVY WALL

45° FIBERGLASS ELBOWS

TANGENT = 6"



IPS Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-AG-4518-A-1	UF20A-SW-AG-4524-A-1	UF20A-SW-AG-4536-A-1	UF20A-SW-AG-4548-A-1	UF20A-SW-AG-4560-A-1
2-1/2" SW		UF25A-SW-AG-4524-A-1	UF25A-SW-AG-4536-A-1	UF25A-SW-AG-4548-A-1	UF25A-SW-AG-4560-A-1
3" SW		UF30A-SW-AG-4524-A-1	UF30A-SW-AG-4536-A-1	UF30A-SW-AG-4548-A-1	UF30A-SW-AG-4560-A-1
4" SW		UF40A-SW-AG-4524-A-1	UF40A-SW-AG-4536-A-1	UF40A-SW-AG-4548-A-1	UF40A-SW-AG-4560-A-1
4" HW		UF40A-HW-AG-4524-A-1	UF40A-HW-AG-4536-A-1	UF40A-HW-AG-4548-A-1	UF40A-HW-AG-4560-A-1
5" SW			UF50A-SW-AG-4536-A-1	UF50A-SW-AG-4548-A-1	UF50A-SW-AG-4560-A-1
5" HW			UF50A-HW-AG-4536-A-1	UF50A-HW-AG-4548-A-1	UF50A-HW-AG-4560-A-1
6" SW			UF60A-SW-AG-4536-A-1	UF60A-SW-AG-4548-A-1	UF60A-SW-AG-4560-A-1
6" HW			UF60A-HW-AG-4536-A-1	UF60A-HW-AG-4548-A-1	UF60A-HW-AG-4560-A-1
8" SW					UF80A-SW-AG-4560-A-1
8" HW					UF80A-HW-AG-4560-A-1

IPS Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-BG-4518-A-1	UF20A-SW-BG-4524-A-1	UF20A-SW-BG-4536-A-1	UF20A-SW-BG-4548-A-1	UF20A-SW-BG-4560-A-1
2-1/2" SW		UF25A-SW-BG-4524-A-1	UF25A-SW-BG-4536-A-1	UF25A-SW-BG-4548-A-1	UF25A-SW-BG-4560-A-1
3" SW		UF30A-SW-BG-4524-A-1	UF30A-SW-BG-4536-A-1	UF30A-SW-BG-4548-A-1	UF30A-SW-BG-4560-A-1
4" SW		UF40A-SW-BG-4524-A-1	UF40A-SW-BG-4536-A-1	UF40A-SW-BG-4548-A-1	UF40A-SW-BG-4560-A-1
4" HW		UF40A-HW-BG-4524-A-1	UF40A-HW-BG-4536-A-1	UF40A-HW-BG-4548-A-1	UF40A-HW-BG-4560-A-1
5" SW			UF50A-SW-BG-4536-A-1	UF50A-SW-BG-4548-A-1	UF50A-SW-BG-4560-A-1
5" HW			UF50A-HW-BG-4536-A-1	UF50A-HW-BG-4548-A-1	UF50A-HW-BG-4560-A-1
6" SW			UF60A-SW-BG-4536-A-1	UF60A-SW-BG-4548-A-1	UF60A-SW-BG-4560-A-1
6" HW			UF60A-HW-BG-4536-A-1	UF60A-HW-BG-4548-A-1	UF60A-HW-BG-4560-A-1
8" SW					UF80A-SW-BG-4560-A-1
8" HW					UF80A-HW-BG-4560-A-1

ID Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-AG-4518-A-1	UF20B-SW-AG-4524-A-1	UF20B-SW-AG-4536-A-1	UF20B-SW-AG-4548-A-1	UF20B-SW-AG-4560-A-1
2-1/2" SW		UF25B-SW-AG-4524-A-1	UF25B-SW-AG-4536-A-1	UF25B-SW-AG-4548-A-1	UF25B-SW-AG-4560-A-1
3" SW		UF30B-SW-AG-4524-A-1	UF30B-SW-AG-4536-A-1	UF30B-SW-AG-4548-A-1	UF30B-SW-AG-4560-A-1
3-1/2" SW		UF35B-SW-AG-4524-A-1	UF35B-SW-AG-4536-A-1	UF35B-SW-AG-4548-A-1	UF35B-SW-AG-4560-A-1
4" SW		UF40B-SW-AG-4524-A-1	UF40B-SW-AG-4536-A-1	UF40B-SW-AG-4548-A-1	UF40B-SW-AG-4560-A-1
4" HW		UF40B-HW-AG-4524-A-1	UF40B-HW-AG-4536-A-1	UF40B-HW-AG-4548-A-1	UF40B-HW-AG-4560-A-1
5" SW			UF50B-SW-AG-4536-A-1	UF50B-SW-AG-4548-A-1	UF50B-SW-AG-4560-A-1
5" HW			UF50B-HW-AG-4536-A-1	UF50B-HW-AG-4548-A-1	UF50B-HW-AG-4560-A-1
6" SW			UF60B-SW-AG-4536-A-1	UF60B-SW-AG-4548-A-1	UF60B-SW-AG-4560-A-1
6" HW			UF60B-HW-AG-4536-A-1	UF60B-HW-AG-4548-A-1	UF60B-HW-AG-4560-A-1

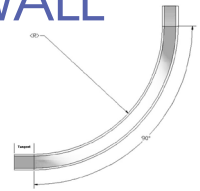
ID Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-BG-4518-A-1	UF20B-SW-BG-4524-A-1	UF20B-SW-BG-4536-A-1	UF20B-SW-BG-4548-A-1	UF20B-SW-BG-4560-A-1
2-1/2" SW		UF25B-SW-BG-4524-A-1	UF25B-SW-BG-4536-A-1	UF25B-SW-BG-4548-A-1	UF25B-SW-BG-4560-A-1
3" SW		UF30B-SW-BG-4524-A-1	UF30B-SW-BG-4536-A-1	UF30B-SW-BG-4548-A-1	UF30B-SW-BG-4560-A-1
3-1/2" SW		UF35B-SW-BG-4524-A-1	UF35B-SW-BG-4536-A-1	UF35B-SW-BG-4548-A-1	UF35B-SW-BG-4560-A-1
4" SW		UF40B-SW-BG-4524-A-1	UF40B-SW-BG-4536-A-1	UF40B-SW-BG-4548-A-1	UF40B-SW-BG-4560-A-1
4" HW		UF40B-HW-BG-4524-A-1	UF40B-HW-BG-4536-A-1	UF40B-HW-BG-4548-A-1	UF40B-HW-BG-4560-A-1
5" SW			UF50B-SW-BG-4536-A-1	UF50B-SW-BG-4548-A-1	UF50B-SW-BG-4560-A-1
5" HW			UF50B-HW-BG-4536-A-1	UF50B-HW-BG-4548-A-1	UF50B-HW-BG-4560-A-1
6" SW			UF60B-SW-BG-4536-A-1	UF60B-SW-BG-4548-A-1	UF60B-SW-BG-4560-A-1
6" HW			UF60B-HW-BG-4536-A-1	UF60B-HW-BG-4548-A-1	UF60B-HW-BG-4560-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For two PVC couplings on IPS elbows use (E) or see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass.

FIBERGLASS ELBOWS – STD. WALL & HEAVY WALL

90° FIBERGLASS ELBOWS

TANGENT = 6"



IPS Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-AG-9018-A-1	UF20A-SW-AG-9024-A-1	UF20A-SW-AG-9036-A-1	UF20A-SW-AG-9048-A-1	UF20A-SW-AG-9060-A-1
2-1/2" SW		UF25A-SW-AG-9024-A-1	UF25A-SW-AG-9036-A-1	UF25A-SW-AG-9048-A-1	UF25A-SW-AG-9060-A-1
3" SW		UF30A-SW-AG-9024-A-1	UF30A-SW-AG-9036-A-1	UF30A-SW-AG-9048-A-1	UF30A-SW-AG-9060-A-1
4" SW		UF40A-SW-AG-9024-A-1	UF40A-SW-AG-9036-A-1	UF40A-SW-AG-9048-A-1	UF40A-SW-AG-9060-A-1
4" HW		UF40A-HW-AG-9024-A-1	UF40A-HW-AG-9036-A-1	UF40A-HW-AG-9048-A-1	UF40A-HW-AG-9060-A-1
5" SW			UF50A-SW-AG-9036-A-1	UF50A-SW-AG-9048-A-1	UF50A-SW-AG-9060-A-1
5" HW			UF50A-HW-AG-9036-A-1	UF50A-HW-AG-9048-A-1	UF50A-HW-AG-9060-A-1
6" SW			UF60A-SW-AG-9036-A-1	UF60A-SW-AG-9048-A-1	UF60A-SW-AG-9060-A-1
6" HW			UF60A-HW-AG-9036-A-1	UF60A-HW-AG-9048-A-1	UF60A-HW-AG-9060-A-1
8" SW					UF80A-SW-AG-9060-A-1
8" HW					UF80A-HW-AG-9060-A-1

IPS Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20A-SW-BG-9018-A-1	UF20A-SW-BG-9024-A-1	UF20A-SW-BG-9036-A-1	UF20A-SW-BG-9048-A-1	UF20A-SW-BG-9060-A-1
2-1/2" SW		UF25A-SW-BG-9024-A-1	UF25A-SW-BG-9036-A-1	UF25A-SW-BG-9048-A-1	UF25A-SW-BG-9060-A-1
3" SW		UF30A-SW-BG-9024-A-1	UF30A-SW-BG-9036-A-1	UF30A-SW-BG-9048-A-1	UF30A-SW-BG-9060-A-1
4" SW		UF40A-SW-BG-9024-A-1	UF40A-SW-BG-9036-A-1	UF40A-SW-BG-9048-A-1	UF40A-SW-BG-9060-A-1
4" HW		UF40A-HW-BG-9024-A-1	UF40A-HW-BG-9036-A-1	UF40A-HW-BG-9048-A-1	UF40A-HW-BG-9060-A-1
5" SW			UF50A-SW-BG-9036-A-1	UF50A-SW-BG-9048-A-1	UF50A-SW-BG-9060-A-1
5" HW			UF50A-HW-BG-9036-A-1	UF50A-HW-BG-9048-A-1	UF50A-HW-BG-9060-A-1
6" SW			UF60A-SW-BG-9036-A-1	UF60A-SW-BG-9048-A-1	UF60A-SW-BG-9060-A-1
6" HW			UF60A-HW-BG-9036-A-1	UF60A-HW-BG-9048-A-1	UF60A-HW-BG-9060-A-1
8" SW					UF80A-SW-BG-9060-A-1
8" HW					UF80A-HW-BG-9060-A-1

ID Above Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-AG-9018-A-1	UF20B-SW-AG-9024-A-1	UF20B-SW-AG-9036-A-1	UF20B-SW-AG-9048-A-1	UF20B-SW-AG-9060-A-1
2-1/2" SW		UF25B-SW-AG-9024-A-1	UF25B-SW-AG-9036-A-1	UF25B-SW-AG-9048-A-1	UF25B-SW-AG-9060-A-1
3" SW		UF30B-SW-AG-9024-A-1	UF30B-SW-AG-9036-A-1	UF30B-SW-AG-9048-A-1	UF30B-SW-AG-9060-A-1
3-1/2" SW		UF35B-SW-AG-9024-A-1	UF35B-SW-AG-9036-A-1	UF35B-SW-AG-9048-A-1	UF35B-SW-AG-9060-A-1
4" SW		UF40B-SW-AG-9024-A-1	UF40B-SW-AG-9036-A-1	UF40B-SW-AG-9048-A-1	UF40B-SW-AG-9060-A-1
4" HW		UF40B-HW-AG-9024-A-1	UF40B-HW-AG-9036-A-1	UF40B-HW-AG-9048-A-1	UF40B-HW-AG-9060-A-1
5" SW			UF50B-SW-AG-9036-A-1	UF50B-SW-AG-9048-A-1	UF50B-SW-AG-9060-A-1
5" HW			UF50B-HW-AG-9036-A-1	UF50B-HW-AG-9048-A-1	UF50B-HW-AG-9060-A-1
6" SW			UF60B-SW-AG-9036-A-1	UF60B-SW-AG-9048-A-1	UF60B-SW-AG-9060-A-1
6" HW			UF60B-HW-AG-9036-A-1	UF60B-HW-AG-9048-A-1	UF60B-HW-AG-9060-A-1

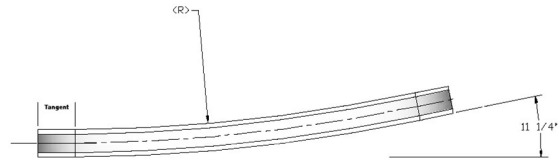
ID Below Ground Conduit					
Size	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
2" SW	UF20B-SW-BG-9018-A-1	UF20B-SW-BG-9024-A-1	UF20B-SW-BG-9036-A-1	UF20B-SW-BG-9048-A-1	UF20B-SW-BG-9060-A-1
2-1/2" SW		UF25B-SW-BG-9024-A-1	UF25B-SW-BG-9036-A-1	UF25B-SW-BG-9048-A-1	UF25B-SW-BG-9060-A-1
3" SW		UF30B-SW-BG-9024-A-1	UF30B-SW-BG-9036-A-1	UF30B-SW-BG-9048-A-1	UF30B-SW-BG-9060-A-1
3-1/2" SW		UF35B-SW-BG-9024-A-1	UF35B-SW-BG-9036-A-1	UF35B-SW-BG-9048-A-1	UF35B-SW-BG-9060-A-1
4" SW		UF40B-SW-BG-9024-A-1	UF40B-SW-BG-9036-A-1	UF40B-SW-BG-9048-A-1	UF40B-SW-BG-9060-A-1
4" HW		UF40B-HW-BG-9024-A-1	UF40B-HW-BG-9036-A-1	UF40B-HW-BG-9048-A-1	UF40B-HW-BG-9060-A-1
5" SW			UF50B-SW-BG-9036-A-1	UF50B-SW-BG-9048-A-1	UF50B-SW-BG-9060-A-1
5" HW			UF50B-HW-BG-9036-A-1	UF50B-HW-BG-9048-A-1	UF50B-HW-BG-9060-A-1
6" SW			UF60B-SW-BG-9036-A-1	UF60B-SW-BG-9048-A-1	UF60B-SW-BG-9060-A-1
6" HW			UF60B-HW-BG-9036-A-1	UF60B-HW-BG-9048-A-1	UF60B-HW-BG-9060-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For two PVC couplings on IPS elbows use (E) or see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass.

FIBERGLASS ELBOWS – EXTRA HEAVY WALL

11.25° FIBERGLASS ELBOWS

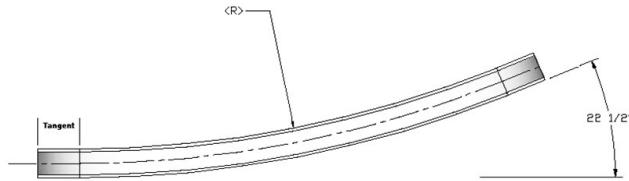
TANGENT = 6"



Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" XW	UF75A-XW-AG-1112-A-1	UF75A-XW-AG-1118-A-1	UF75A-XW-AG-1124-A-1	UF75A-XW-AG-1136-A-1	UF75A-XW-AG-1148-A-1	UF75A-XW-AG-1160-A-1
1" XW	UF10A-XW-AG-1112-A-1	UF10A-XW-AG-1118-A-1	UF10A-XW-AG-1124-A-1	UF10A-XW-AG-1136-A-1	UF10A-XW-AG-1148-A-1	UF10A-XW-AG-1160-A-1
1-1/4" XW	UF12A-XW-AG-1112-A-1	UF12A-XW-AG-1118-A-1	UF12A-XW-AG-1124-A-1	UF12A-XW-AG-1136-A-1	UF12A-XW-AG-1148-A-1	UF12A-XW-AG-1160-A-1
1-1/2" XW	UF15A-XW-AG-1112-A-1	UF15A-XW-AG-1118-A-1	UF15A-XW-AG-1124-A-1	UF15A-XW-AG-1136-A-1	UF15A-XW-AG-1148-A-1	UF15A-XW-AG-1160-A-1
2" XW			UF20B-XW-AG-1124-A-1	UF20B-XW-AG-1136-A-1	UF20B-XW-AG-1148-A-1	UF20B-XW-AG-1160-A-1
2-1/2" XW			UF25B-XW-AG-1124-A-1	UF25B-XW-AG-1136-A-1	UF25B-XW-AG-1148-A-1	UF25B-XW-AG-1160-A-1
3" XW			UF30B-XW-AG-1124-A-1	UF30B-XW-AG-1136-A-1	UF30B-XW-AG-1148-A-1	UF30B-XW-AG-1160-A-1
3-1/2" XW			UF35B-XW-AG-1124-A-1	UF35B-XW-AG-1136-A-1	UF35B-XW-AG-1148-A-1	UF35B-XW-AG-1160-A-1
4" XW			UF40B-XW-AG-1124-A-1	UF40B-XW-AG-1136-A-1	UF40B-XW-AG-1148-A-1	UF40B-XW-AG-1160-A-1
5" XW				UF50B-XW-AG-1136-A-1	UF50B-XW-AG-1148-A-1	UF50B-XW-AG-1160-A-1
6" XW				UF60B-XW-AG-1136-A-1	UF60B-XW-AG-1148-A-1	UF60B-XW-AG-1160-A-1
8" XW						UF80A-XW-AG-1160-A-1

22.5° FIBERGLASS ELBOWS

TANGENT = 6"



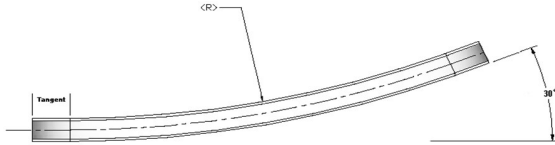
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" XW	UF75A-XW-AG-2212-A-1	UF75A-XW-AG-2218-A-1	UF75A-XW-AG-2224-A-1	UF75A-XW-AG-2236-A-1	UF75A-XW-AG-2248-A-1	UF75A-XW-AG-2260-A-1
1" XW	UF10A-XW-AG-2212-A-1	UF10A-XW-AG-2218-A-1	UF10A-XW-AG-2224-A-1	UF10A-XW-AG-2236-A-1	UF10A-XW-AG-2248-A-1	UF10A-XW-AG-2260-A-1
1-1/4" XW	UF12A-XW-AG-2212-A-1	UF12A-XW-AG-2218-A-1	UF12A-XW-AG-2224-A-1	UF12A-XW-AG-2236-A-1	UF12A-XW-AG-2248-A-1	UF12A-XW-AG-2260-A-1
1-1/2" XW	UF15A-XW-AG-2212-A-1	UF15A-XW-AG-2218-A-1	UF15A-XW-AG-2224-A-1	UF15A-XW-AG-2236-A-1	UF15A-XW-AG-2248-A-1	UF15A-XW-AG-2260-A-1
2" XW			UF20B-XW-AG-2224-A-1	UF20B-XW-AG-2236-A-1	UF20B-XW-AG-2248-A-1	UF20B-XW-AG-2260-A-1
2-1/2" XW			UF25B-XW-AG-2224-A-1	UF25B-XW-AG-2236-A-1	UF25B-XW-AG-2248-A-1	UF25B-XW-AG-2260-A-1
3" XW			UF30B-XW-AG-2224-A-1	UF30B-XW-AG-2236-A-1	UF30B-XW-AG-2248-A-1	UF30B-XW-AG-2260-A-1
3-1/2" XW			UF35B-XW-AG-2224-A-1	UF35B-XW-AG-2236-A-1	UF35B-XW-AG-2248-A-1	UF35B-XW-AG-2260-A-1
4" XW			UF40B-XW-AG-2224-A-1	UF40B-XW-AG-2236-A-1	UF40B-XW-AG-2248-A-1	UF40B-XW-AG-2260-A-1
5" XW				UF50B-XW-AG-2236-A-1	UF50B-XW-AG-2248-A-1	UF50B-XW-AG-2260-A-1
6" XW				UF60B-XW-AG-2236-A-1	UF60B-XW-AG-2248-A-1	UF60B-XW-AG-2260-A-1
8" XW						UF80A-XW-AG-2260-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For special radius elbows please contact United Fiberglass.

FIBERGLASS ELBOWS – EXTRA HEAVY WALL

30° FIBERGLASS ELBOWS

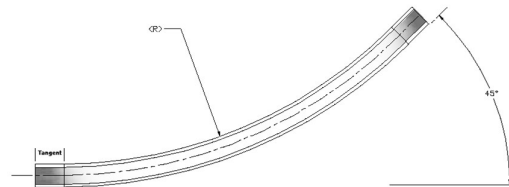
TANGENT = 6"



Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" XW	UF75A-XW-AG-3012-A-1	UF75A-XW-AG-3018-A-1	UF75A-XW-AG-3024-A-1	UF75A-XW-AG-3036-A-1	UF75A-XW-AG-3048-A-1	UF75A-XW-AG-3060-A-1
1" XW	UF10A-XW-AG-3012-A-1	UF10A-XW-AG-3018-A-1	UF10A-XW-AG-3024-A-1	UF10A-XW-AG-3036-A-1	UF10A-XW-AG-3048-A-1	UF10A-XW-AG-3060-A-1
1-1/4" XW	UF12A-XW-AG-3012-A-1	UF12A-XW-AG-3018-A-1	UF12A-XW-AG-3024-A-1	UF12A-XW-AG-3036-A-1	UF12A-XW-AG-3048-A-1	UF12A-XW-AG-3060-A-1
1-1/2" XW	UF15A-XW-AG-3012-A-1	UF15A-XW-AG-3018-A-1	UF15A-XW-AG-3024-A-1	UF15A-XW-AG-3036-A-1	UF15A-XW-AG-3048-A-1	UF15A-XW-AG-3060-A-1
2" XW			UF20B-XW-AG-3024-A-1	UF20B-XW-AG-3036-A-1	UF20B-XW-AG-3048-A-1	UF20B-XW-AG-3060-A-1
2-1/2" XW			UF25B-XW-AG-3024-A-1	UF25B-XW-AG-3036-A-1	UF25B-XW-AG-3048-A-1	UF25B-XW-AG-3060-A-1
3" XW			UF30B-XW-AG-3024-A-1	UF30B-XW-AG-3036-A-1	UF30B-XW-AG-3048-A-1	UF30B-XW-AG-3060-A-1
3-1/2" XW			UF35B-XW-AG-3024-A-1	UF35B-XW-AG-3036-A-1	UF35B-XW-AG-3048-A-1	UF35B-XW-AG-3060-A-1
4" XW			UF40B-XW-AG-3024-A-1	UF40B-XW-AG-3036-A-1	UF40B-XW-AG-3048-A-1	UF40B-XW-AG-3060-A-1
5" XW				UF50B-XW-AG-3036-A-1	UF50B-XW-AG-3048-A-1	UF50B-XW-AG-3060-A-1
6" XW				UF60B-XW-AG-3036-A-1	UF60B-XW-AG-3048-A-1	UF60B-XW-AG-3060-A-1
8" XW						UF80A-XW-AG-3060-A-1

45° FIBERGLASS ELBOWS

TANGENT = 6"



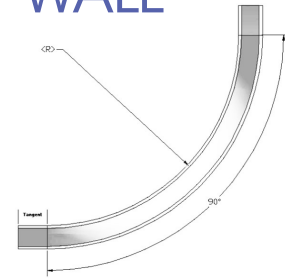
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" XW	UF75A-XW-AG-4512-A-1	UF75A-XW-AG-4518-A-1	UF75A-XW-AG-4524-A-1	UF75A-XW-AG-4536-A-1	UF75A-XW-AG-4548-A-1	UF75A-XW-AG-4560-A-1
1" XW	UF10A-XW-AG-4512-A-1	UF10A-XW-AG-4518-A-1	UF10A-XW-AG-4524-A-1	UF10A-XW-AG-4536-A-1	UF10A-XW-AG-4548-A-1	UF10A-XW-AG-4560-A-1
1-1/4" XW	UF12A-XW-AG-4512-A-1	UF12A-XW-AG-4518-A-1	UF12A-XW-AG-4524-A-1	UF12A-XW-AG-4536-A-1	UF12A-XW-AG-4548-A-1	UF12A-XW-AG-4560-A-1
1-1/2" XW	UF15A-XW-AG-4512-A-1	UF15A-XW-AG-4518-A-1	UF15A-XW-AG-4524-A-1	UF15A-XW-AG-4536-A-1	UF15A-XW-AG-4548-A-1	UF15A-XW-AG-4560-A-1
2" XW			UF20B-XW-AG-4524-A-1	UF20B-XW-AG-4536-A-1	UF20B-XW-AG-4548-A-1	UF20B-XW-AG-4560-A-1
2-1/2" XW			UF25B-XW-AG-4524-A-1	UF25B-XW-AG-4536-A-1	UF25B-XW-AG-4548-A-1	UF25B-XW-AG-4560-A-1
3" XW			UF30B-XW-AG-4524-A-1	UF30B-XW-AG-4536-A-1	UF30B-XW-AG-4548-A-1	UF30B-XW-AG-4560-A-1
3-1/2" XW			UF35B-XW-AG-4524-A-1	UF35B-XW-AG-4536-A-1	UF35B-XW-AG-4548-A-1	UF35B-XW-AG-4560-A-1
4" XW			UF40B-XW-AG-4524-A-1	UF40B-XW-AG-4536-A-1	UF40B-XW-AG-4548-A-1	UF40B-XW-AG-4560-A-1
5" XW				UF50B-XW-AG-4536-A-1	UF50B-XW-AG-4548-A-1	UF50B-XW-AG-4560-A-1
6" XW				UF60B-XW-AG-4536-A-1	UF60B-XW-AG-4548-A-1	UF60B-XW-AG-4560-A-1
8" XW						UF80A-XW-AG-4560-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For special radius elbows please contact United Fiberglass or your agent.

FIBERGLASS ELBOWS – EXTRA HEAVY WALL

90° FIBERGLASS ELBOWS

TANGENT = 6"



Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" XW	UF75A-XW-AG-9012-A-1	UF75A-XW-AG-9018-A-1	UF75A-XW-AG-9024-A-1	UF75A-XW-AG-9036-A-1	UF75A-XW-AG-9048-A-1	UF75A-XW-AG-9060-A-1
1" XW	UF10A-XW-AG-9012-A-1	UF10A-XW-AG-9018-A-1	UF10A-XW-AG-9024-A-1	UF10A-XW-AG-9036-A-1	UF10A-XW-AG-9048-A-1	UF10A-XW-AG-9060-A-1
1-1/4" XW	UF12A-XW-AG-9012-A-1	UF12A-XW-AG-9018-A-1	UF12A-XW-AG-9024-A-1	UF12A-XW-AG-9036-A-1	UF12A-XW-AG-9048-A-1	UF12A-XW-AG-9060-A-1
1-1/2" XW	UF15A-XW-AG-9012-A-1	UF15A-XW-AG-9018-A-1	UF15A-XW-AG-9024-A-1	UF15A-XW-AG-9036-A-1	UF15A-XW-AG-9048-A-1	UF15A-XW-AG-9060-A-1
2" XW			UF20B-XW-AG-9024-A-1	UF20B-XW-AG-9036-A-1	UF20B-XW-AG-9048-A-1	UF20B-XW-AG-9060-A-1
2-1/2" XW			UF25B-XW-AG-9024-A-1	UF25B-XW-AG-9036-A-1	UF25B-XW-AG-9048-A-1	UF25B-XW-AG-9060-A-1
3" XW			UF30B-XW-AG-9024-A-1	UF30B-XW-AG-9036-A-1	UF30B-XW-AG-9048-A-1	UF30B-XW-AG-9060-A-1
3-1/2" XW			UF35B-XW-AG-9024-A-1	UF35B-XW-AG-9036-A-1	UF35B-XW-AG-9048-A-1	UF35B-XW-AG-9060-A-1
4" XW			UF40B-XW-AG-9024-A-1	UF40B-XW-AG-9036-A-1	UF40B-XW-AG-9048-A-1	UF40B-XW-AG-9060-A-1
5" XW				UF50B-XW-AG-9036-A-1	UF50B-XW-AG-9048-A-1	UF50B-XW-AG-9060-A-1
6" XW				UF60B-XW-AG-9036-A-1	UF60B-XW-AG-9048-A-1	UF60B-XW-AG-9060-A-1
8" XW						UF80A-XW-AG-9060-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For special radius elbows please contact United Fiberglass or your agent.

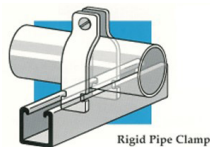
POLE RISERS

Risers Provide Cable Protection on Utility Poles and Bridge Piers.



Size	10' Length	20' Length	Coupling ID	Conduit OD	Wall
3" XW	UF30B-XW-AG-710-1	UF30B-XW-AG-720-1	3.50	3.50	.25"
4" XW	UF40B-XW-AG-710-1	UF40B-XW-AG-720-1	4.50	4.50	.25"
5" XW	UF50B-XW-AG-710-1	UF50B-XW-AG-720-1	5.56	5.50	.25"

Pole risers have one PVC deep socket coupling installed instead of a conduit bell.

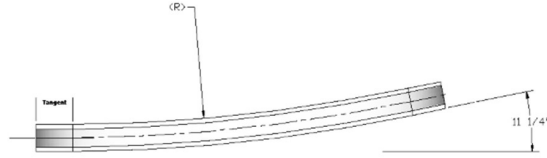


Use United Fiberglass custom straps and strut assemblies when attaching risers to utility poles or piers.

FIBERGLASS ELBOWS – SMALL DIAMETER

11.25° IPS FIBERGLASS ELBOWS

TANGENT = 6"

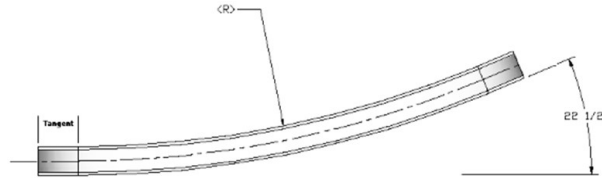


IPS Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-SW-AG-1112-A-1	UF75A-SW-AG-1118-A-1	UF75A-SW-AG-1124-A-1	UF75A-SW-AG-1136-A-1	UF75A-SW-AG-1148-A-1	UF75A-SW-AG-1160-A-1
1" SW	UF10A-SW-AG-1112-A-1	UF10A-SW-AG-1118-A-1	UF10A-SW-AG-1124-A-1	UF10A-SW-AG-1136-A-1	UF10A-SW-AG-1148-A-1	UF10A-SW-AG-1160-A-1
1 1/4" SW	UF12A-SW-AG-1112-A-1	UF12A-SW-AG-1118-A-1	UF12A-SW-AG-1124-A-1	UF12A-SW-AG-1136-A-1	UF12A-SW-AG-1148-A-1	UF12A-SW-AG-1160-A-1
1 1/2" SW	UF15A-SW-AG-1112-A-1	UF15A-SW-AG-1118-A-1	UF15A-SW-AG-1124-A-1	UF15A-SW-AG-1136-A-1	UF15A-SW-AG-1148-A-1	UF15A-SW-AG-1160-A-1
2" SW		UF20A-SW-AG-1118-A-1	UF20A-SW-AG-1124-A-1	UF20A-SW-AG-1136-A-1	UF20A-SW-AG-1148-A-1	UF20A-SW-AG-1160-A-1

XW Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-XW-AG-1112-A-1	UF75A-XW-AG-1118-A-1	UF75A-XW-AG-1124-A-1	UF75A-XW-AG-1136-A-1	UF75A-XW-AG-1148-A-1	UF75A-XW-AG-1160-A-1
1" SW	UF10A-XW-AG-1112-A-1	UF10A-XW-AG-1118-A-1	UF10A-XW-AG-1124-A-1	UF10A-XW-AG-1136-A-1	UF10A-XW-AG-1148-A-1	UF10A-XW-AG-1160-A-1
1 1/4" SW	UF12A-XW-AG-1112-A-1	UF12A-XW-AG-1118-A-1	UF12A-XW-AG-1124-A-1	UF12A-XW-AG-1136-A-1	UF12A-XW-AG-1148-A-1	UF12A-XW-AG-1160-A-1
1 1/2" SW	UF15A-XW-AG-1112-A-1	UF15A-XW-AG-1118-A-1	UF15A-XW-AG-1124-A-1	UF15A-XW-AG-1136-A-1	UF15A-XW-AG-1148-A-1	UF15A-XW-AG-1160-A-1
2" SW			UF20B-XW-AG-1124-A-1	UF20B-XW-AG-1136-A-1	UF20B-XW-AG-1148-A-1	UF12B-XW-AG-1160-A-1

22.5° IPS FIBERGLASS ELBOWS

TANGENT = 6"



IPS Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-SW-AG-2212-A-1	UF75A-SW-AG-2218-A-1	UF75A-SW-AG-2224-A-1	UF75A-SW-AG-2236-A-1	UF75A-SW-AG-2248-A-1	UF75A-SW-AG-2260-A-1
1" SW	UF10A-SW-AG-2212-A-1	UF10A-SW-AG-2218-A-1	UF10A-SW-AG-2224-A-1	UF10A-SW-AG-2236-A-1	UF10A-SW-AG-2248-A-1	UF10A-SW-AG-2260-A-1
1 1/4" SW	UF12A-SW-AG-2212-A-1	UF12A-SW-AG-2218-A-1	UF12A-SW-AG-2224-A-1	UF12A-SW-AG-2236-A-1	UF12A-SW-AG-2248-A-1	UF12A-SW-AG-2260-A-1
1 1/2" SW	UF15A-SW-AG-2212-A-1	UF15A-SW-AG-2218-A-1	UF15A-SW-AG-2224-A-1	UF15A-SW-AG-2236-A-1	UF15A-SW-AG-2248-A-1	UF15A-SW-AG-2260-A-1
2" SW		UF20A-SW-AG-2218-A-1	UF20A-SW-AG-2224-A-1	UF20A-SW-AG-2236-A-1	UF20A-SW-AG-2248-A-1	UF20A-SW-AG-2260-A-1

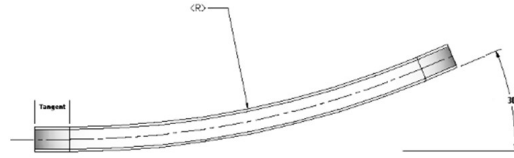
XW Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-XW-AG-2212-A-1	UF75A-XW-AG-2218-A-1	UF75A-XW-AG-2224-A-1	UF75A-XW-AG-2236-A-1	UF75A-XW-AG-2248-A-1	UF75A-XW-AG-2260-A-1
1" SW	UF10A-XW-AG-2212-A-1	UF10A-XW-AG-2218-A-1	UF10A-XW-AG-2224-A-1	UF10A-XW-AG-2236-A-1	UF10A-XW-AG-2248-A-1	UF10A-XW-AG-2260-A-1
1 1/4" SW	UF12A-XW-AG-2212-A-1	UF12A-XW-AG-2218-A-1	UF12A-XW-AG-2224-A-1	UF12A-XW-AG-2236-A-1	UF12A-XW-AG-2248-A-1	UF12A-XW-AG-2260-A-1
1 1/2" SW	UF15A-XW-AG-2212-A-1	UF15A-XW-AG-2218-A-1	UF15A-XW-AG-2224-A-1	UF15A-XW-AG-2236-A-1	UF15A-XW-AG-2248-A-1	UF15A-XW-AG-2260-A-1
2" SW			UF20B-XW-AG-2224-A-1	UF20B-XW-AG-2236-A-1	UF20B-XW-AG-2248-A-1	UF12B-XW-AG-2260-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For PVC fittings, see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass or your agent.

FIBERGLASS ELBOWS – SMALL DIAMETER

30° IPS FIBERGLASS ELBOWS

TANGENT = 6"

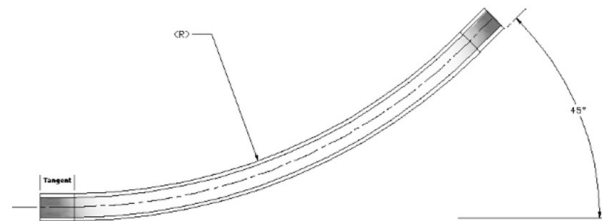


IPS Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-SW-AG-3012-A-1	UF75A-SW-AG-3018-A-1	UF75A-SW-AG-3024-A-1	UF75A-SW-AG-3036-A-1	UF75A-SW-AG-3048-A-1	UF75A-SW-AG-3060-A-1
1" SW	UF10A-SW-AG-3012-A-1	UF10A-SW-AG-3018-A-1	UF10A-SW-AG-3024-A-1	UF10A-SW-AG-3036-A-1	UF10A-SW-AG-3048-A-1	UF10A-SW-AG-3060-A-1
1 1/4" SW	UF12A-SW-AG-3012-A-1	UF12A-SW-AG-3018-A-1	UF12A-SW-AG-3024-A-1	UF12A-SW-AG-3036-A-1	UF12A-SW-AG-3048-A-1	UF12A-SW-AG-3060-A-1
1 1/2" SW	UF15A-SW-AG-3012-A-1	UF15A-SW-AG-3018-A-1	UF15A-SW-AG-3024-A-1	UF15A-SW-AG-3036-A-1	UF15A-SW-AG-3048-A-1	UF15A-SW-AG-3060-A-1
2" SW		UF20A-SW-AG-3018-A-1	UF20A-SW-AG-3024-A-1	UF20A-SW-AG-3036-A-1	UF20A-SW-AG-3048-A-1	UF20A-SW-AG-3060-A-1

XW Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-XW-AG-3012-A-1	UF75A-XW-AG-3018-A-1	UF75A-XW-AG-3024-A-1	UF75A-XW-AG-3036-A-1	UF75A-XW-AG-3048-A-1	UF75A-XW-AG-3060-A-1
1" SW	UF10A-XW-AG-3012-A-1	UF10A-XW-AG-3018-A-1	UF10A-XW-AG-3024-A-1	UF10A-XW-AG-3036-A-1	UF10A-XW-AG-3048-A-1	UF10A-XW-AG-3060-A-1
1 1/4" SW	UF12A-XW-AG-3012-A-1	UF12A-XW-AG-3018-A-1	UF12A-XW-AG-3024-A-1	UF12A-XW-AG-3036-A-1	UF12A-XW-AG-3048-A-1	UF12A-XW-AG-3060-A-1
1 1/2" SW	UF15A-XW-AG-3012-A-1	UF15A-XW-AG-3018-A-1	UF15A-XW-AG-3024-A-1	UF15A-XW-AG-3036-A-1	UF15A-XW-AG-3048-A-1	UF15A-XW-AG-3060-A-1
2" SW			UF20B-XW-AG-3024-A-1	UF20B-XW-AG-3036-A-1	UF20B-XW-AG-3048-A-1	UF20B-XW-AG-3060-A-1

45° IPS FIBERGLASS ELBOWS

TANGENT = 6"



IPS Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-SW-AG-4512-A-1	UF75A-SW-AG-4518-A-1	UF75A-SW-AG-4524-A-1	UF75A-SW-AG-4536-A-1	UF75A-SW-AG-4548-A-1	UF75A-SW-AG-4560-A-1
1" SW	UF10A-SW-AG-4512-A-1	UF10A-SW-AG-4518-A-1	UF10A-SW-AG-4524-A-1	UF10A-SW-AG-4536-A-1	UF10A-SW-AG-4548-A-1	UF10A-SW-AG-4560-A-1
1 1/4" SW	UF12A-SW-AG-4512-A-1	UF12A-SW-AG-4518-A-1	UF12A-SW-AG-4524-A-1	UF12A-SW-AG-4536-A-1	UF12A-SW-AG-4548-A-1	UF12A-SW-AG-4560-A-1
1 1/2" SW	UF15A-SW-AG-4512-A-1	UF15A-SW-AG-4518-A-1	UF15A-SW-AG-4524-A-1	UF15A-SW-AG-4536-A-1	UF15A-SW-AG-4548-A-1	UF15A-SW-AG-4560-A-1
2" SW		UF20A-SW-AG-4518-A-1	UF20A-SW-AG-4524-A-1	UF20A-SW-AG-4536-A-1	UF20A-SW-AG-4548-A-1	UF20A-SW-AG-4560-A-1

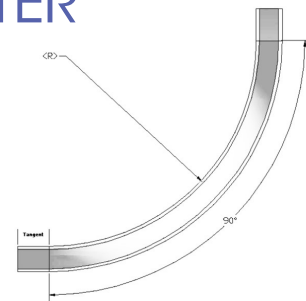
XW Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-XW-AG-4512-A-1	UF75A-XW-AG-4518-A-1	UF75A-XW-AG-4524-A-1	UF75A-XW-AG-4536-A-1	UF75A-XW-AG-4548-A-1	UF75A-XW-AG-4560-A-1
1" SW	UF10A-XW-AG-4512-A-1	UF10A-XW-AG-4518-A-1	UF10A-XW-AG-4524-A-1	UF10A-XW-AG-4536-A-1	UF10A-XW-AG-4548-A-1	UF10A-XW-AG-4560-A-1
1 1/4" SW	UF12A-XW-AG-4512-A-1	UF12A-XW-AG-4518-A-1	UF12A-XW-AG-4524-A-1	UF12A-XW-AG-4536-A-1	UF12A-XW-AG-4548-A-1	UF12A-XW-AG-4560-A-1
1 1/2" SW	UF15A-XW-AG-4512-A-1	UF15A-XW-AG-4518-A-1	UF15A-XW-AG-4524-A-1	UF15A-XW-AG-4536-A-1	UF15A-XW-AG-4548-A-1	UF15A-XW-AG-4560-A-1
2" SW			UF20B-XW-AG-4524-A-1	UF20B-XW-AG-4536-A-1	UF20B-XW-AG-4548-A-1	UF20B-XW-AG-4560-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For PVC fittings, see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass or your agent.

FIBERGLASS ELBOWS – SMALL DIAMETER

90° IPS FIBERGLASS ELBOWS

TANGENT = 6"



IPS Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-SW-AG-9012-A-1	UF75A-SW-AG-9018-A-1	UF75A-SW-AG-9024-A-1	UF75A-SW-AG-9036-A-1	UF75A-SW-AG-9048-A-1	UF75A-SW-AG-9060-A-1
1" SW	UF10A-SW-AG-9012-A-1	UF10A-SW-AG-9018-A-1	UF10A-SW-AG-9024-A-1	UF10A-SW-AG-9036-A-1	UF10A-SW-AG-9048-A-1	UF10A-SW-AG-9060-A-1
1 1/4" SW	UF12A-SW-AG-9012-A-1	UF12A-SW-AG-9018-A-1	UF12A-SW-AG-9024-A-1	UF12A-SW-AG-9036-A-1	UF12A-SW-AG-9048-A-1	UF12A-SW-AG-9060-A-1
1 1/2" SW	UF15A-SW-AG-9012-A-1	UF15A-SW-AG-9018-A-1	UF15A-SW-AG-9024-A-1	UF15A-SW-AG-9036-A-1	UF15A-SW-AG-9048-A-1	UF15A-SW-AG-9060-A-1
2" SW		UF20A-SW-AG-9018-A-1	UF20A-SW-AG-9024-A-1	UF20A-SW-AG-9036-A-1	UF20A-SW-AG-9048-A-1	UF20A-SW-AG-9060-A-1

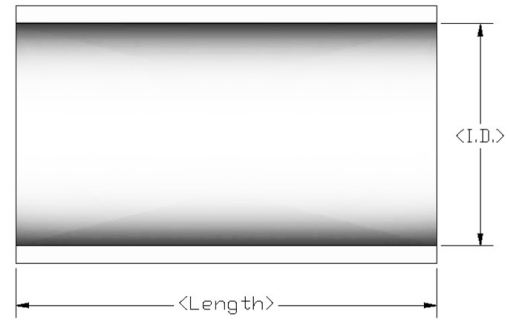
XW Conduit						
Size	12" RAD	18" RAD	24" RAD	36" RAD	48" RAD	60" RAD
3/4" SW	UF75A-XW-AG-9012-A-1	UF75A-XW-AG-9012-A-1	UF75A-XW-AG-9024-A-1	UF75A-XW-AG-9036-A-1	UF75A-XW-AG-9048-A-1	UF75A-XW-AG-9060-A-1
1" SW	UF10A-XW-AG-9012-A-1	UF10A-XW-AG-9012-A-1	UF10A-XW-AG-9024-A-1	UF10A-XW-AG-9036-A-1	UF10A-XW-AG-9048-A-1	UF10A-XW-AG-9060-A-1
1 1/4" SW	UF12A-XW-AG-9012-A-1	UF12A-XW-AG-9012-A-1	UF12A-XW-AG-9024-A-1	UF12A-XW-AG-9036-A-1	UF12A-XW-AG-9048-A-1	UF12A-XW-AG-9060-A-1
1 1/2" SW	UF15A-XW-AG-9012-A-1	UF15A-XW-AG-9012-A-1	UF15A-XW-AG-9024-A-1	UF15A-XW-AG-9036-A-1	UF15A-XW-AG-9048-A-1	UF15A-XW-AG-9060-A-1
2" SW			UF20B-XW-AG-9024-A-1	UF20B-XW-AG-9036-A-1	UF20B-XW-AG-9048-A-1	UF20B-XW-AG-9060-A-1

Elbows are supplied plain end x plain end. For one (1) factory installed fiberglass coupling, replace (A) with (B). For two (2) fiberglass couplings use (C). For PVC fittings, see our "zero burn-through fiberglass elbow" section. For special radius elbows please contact United Fiberglass or your agent.

FITTINGS – STANDARD WALL & HEAVY WALL

SLEEVE COUPLING

Sleeve couplings are used to join spigot ends of conduit, as sleeves through a bridge abutment wall, or as sleeves at a hanger support window. They are also used to repair conduit.

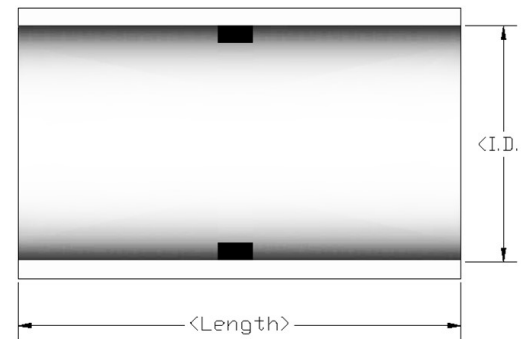


IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-500-1	UF20A-SW-BG-500-1	2.41"	6"
2-1/2" SW	UF25A-SW-AG-500-1	UF25A-SW-BG-500-1	2.94"	6"
3" SW	UF30A-SW-AG-500-1	UF30A-SW-BG-500-1	3.54"	6"
4" SW	UF40A-SW-AG-500-1	UF40A-SW-BG-500-1	4.54"	6"
4" HW	UF40A-HW-AG-500-1	UF40A-HW-BG-500-1	4.54"	6"
5" SW	UF50A-SW-AG-500-1	UF50A-SW-BG-500-1	5.62"	6"
5" HW	UF50A-HW-AG-500-1	UF50A-HW-BG-500-1	5.62"	6"
6" SW	UF60A-SW-AG-500-1	UF60A-SW-BG-500-1	6.67"	6"
6" HW	UF60A-HW-AG-500-1	UF60A-HW-BG-500-1	6.67"	6"
8" SW	UF80A-SW-AG-500-1	UF80A-SW-BG-500-1	8.64"	6"
8" HW	UF80A-HW-AG-500-1	UF80A-HW-BG-500-1	8.64"	6"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-500-1	UF20B-SW-BG-500-1	2.17"	6"
2-1/2" SW	UF25B-SW-AG-500-1	UF25B-SW-BG-500-1	2.67"	6"
3" SW	UF30B-SW-AG-500-1	UF30B-SW-BG-500-1	3.17"	6"
3-1/2" SW	UF35B-SW-AG-500-1	UF35B-SW-BG-500-1	3.67"	6"
4" SW	UF40B-SW-AG-500-1	UF40B-SW-BG-500-1	4.17"	6"
4" HW	UF40B-HW-AG-500-1	UF40B-HW-BG-500-1	4.23"	6"
5" SW	UF50B-SW-AG-500-1	UF50B-SW-BG-500-1	5.24"	6"/8"
5" HW	UF50B-HW-AG-500-1	UF50B-HW-BG-500-1	5.24"	6"/8"
6" SW	UF60B-SW-AG-500-1	UF60B-SW-BG-500-1	6.24"	6"/8"
6" HW	UF60B-HW-AG-500-1	UF60B-HW-BG-500-1	6.24"	6"/8"

STOP COUPLING

Stop couplings, or double bell couplings are used to join spigot ends of conduit.



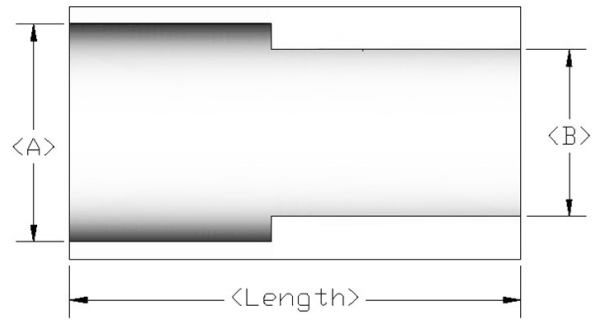
IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-510-1	UF20A-SW-BG-510-1	2.41"	6.5"
2-1/2" SW	UF25A-SW-AG-510-1	UF25A-SW-BG-510-1	2.94"	6.5"
3" SW	UF30A-SW-AG-510-1	UF30A-SW-BG-510-1	3.54"	6.5"
4" SW	UF40A-SW-AG-510-1	UF40A-SW-BG-510-1	4.54"	6.5"
4" HW	UF40A-HW-AG-510-1	UF40A-HW-BG-510-1	4.54"	6.5"
5" SW	UF50A-SW-AG-510-1	UF50A-SW-BG-510-1	5.62"	6.5"
5" HW	UF50A-HW-AG-510-1	UF50A-HW-BG-510-1	5.62"	6.5"
6" SW	UF60A-SW-AG-510-1	UF60A-SW-BG-510-1	6.67"	6.5"
6" HW	UF60A-HW-AG-510-1	UF60A-HW-BG-510-1	6.67"	6.5"
8" SW	UF80A-SW-AG-510-1	UF80A-SW-BG-510-1	8.64"	6.5"
8" HW	UF80A-HW-AG-510-1	UF80A-HW-BG-510-1	8.64"	6.5"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-510-1	UF20B-SW-BG-510-1	2.17"	6.5"
2-1/2" SW	UF25B-SW-AG-510-1	UF25B-SW-BG-510-1	2.67"	6.5"
3" SW	UF30B-SW-AG-510-1	UF30B-SW-BG-510-1	3.17"	6.5"
3-1/2" SW	UF35B-SW-AG-510-1	UF35B-SW-BG-510-1	3.67"	6.5"
4" SW	UF40B-SW-AG-510-1	UF40B-SW-BG-510-1	4.17"	6.5"
4" HW	UF40B-HW-AG-510-1	UF40B-HW-BG-510-1	4.23"	6.5"
5" SW	UF50B-SW-AG-510-1	UF50B-SW-BG-510-1	5.24"	6.5"/8.5"
5" HW	UF50B-HW-AG-510-1	UF50B-HW-BG-510-1	5.24"	6.5"/8.5"
6" SW	UF60B-SW-AG-510-1	UF60B-SW-BG-510-1	6.24"	6.5"/8.5"
6" HW	UF60B-HW-AG-510-1	UF60B-HW-BG-510-1	6.24"	6.5"/8.5"

FITTINGS – STANDARD WALL & HEAVY WALL

PVC SCHEDULE 40 ADAPTOR

PVC adaptors are used to join fiberglass conduit to PVC schedule 40 and schedule 80 PVC conduit.

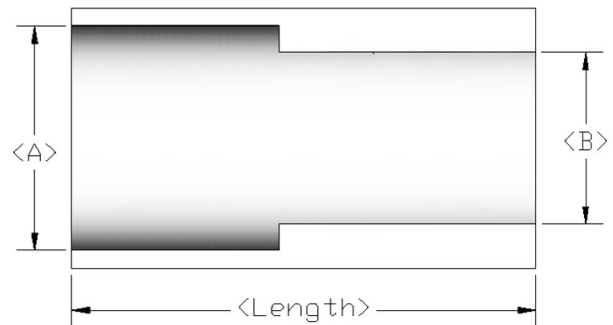


IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-520-1	UF20A-SW-BG-520-1	2.41"	6.5"
2-1/2" SW	UF25A-SW-AG-520-1	UF25A-SW-BG-520-1	2.94"	6.5"
3" SW	UF30A-SW-AG-520-1	UF30A-SW-BG-520-1	3.54"	6.5"
4" SW	UF40A-SW-AG-520-1	UF40A-SW-BG-520-1	4.54"	6.5"
4" HW	UF40A-HW-AG-520-1	UF40A-HW-BG-520-1	4.54"	6.5"
5" SW	UF50A-SW-AG-520-1	UF50A-SW-BG-520-1	5.62"	6.5"
5" HW	UF50A-HW-AG-520-1	UF50A-HW-BG-520-1	5.62"	6.5"
6" SW	UF60A-SW-AG-520-1	UF60A-SW-BG-520-1	6.67"	6.5"
6" HW	UF60A-HW-AG-520-1	UF60A-HW-BG-520-1	6.67"	6.5"
8" SW	UF80A-SW-AG-520-1	UF80A-SW-BG-520-1	8.64"	6.5"
8" HW	UF80A-HW-AG-520-1	UF80A-HW-BG-520-1	8.64"	9"

ID Conduit					
Size	AG Part No.	BG Part No.	A	B	L
2" SW	UF20B-SW-AG-520-1	UF20B-SW-BG-520-1	2.17"	2.41"	6"
2-1/2" SW	UF25B-SW-AG-520-1	UF25B-SW-BG-520-1	2.67"	2.94"	6"
3" SW	UF30B-SW-AG-520-1	UF30B-SW-BG-520-1	3.17"	3.54"	6"
3-1/2" SW	UF35B-SW-AG-520-1	UF35B-SW-BG-520-1	3.67"	4.02"	6"
4" SW	UF40B-SW-AG-520-1	UF40B-SW-BG-520-1	4.17"	4.54"	6"
4" HW	UF40B-HW-AG-520-1	UF40B-HW-BG-520-1	4.23"	4.54"	6"
5" SW	UF50B-SW-AG-520-1	UF50B-SW-BG-520-1	5.24"	5.62"	6"/7"
5" HW	UF50B-HW-AG-520-1	UF50B-HW-BG-520-1	5.24"	5.62"	6"/7"
6" SW	UF60B-SW-AG-520-1	UF60B-SW-BG-520-1	6.24"	6.67"	6"/7"
6" HW	UF60B-HW-AG-520-1	UF60B-HW-BG-520-1	6.24"	6.67"	6"/7"

PVC C-DUCT ADAPTOR

PVC adaptors are used to join fiberglass conduit to PVC C-duct conduit.



IPS Conduit					
Size	AG Part No.	BG Part No.	A	B	L
4" SW	UF40A-SW-AG-540-1	UF40A-SW-BG-540-1	4.54"	4.38"	6"
4" HW	UF40A-HW-AG-540-1	UF40A-HW-BG-540-1	4.54"	4.38"	6"

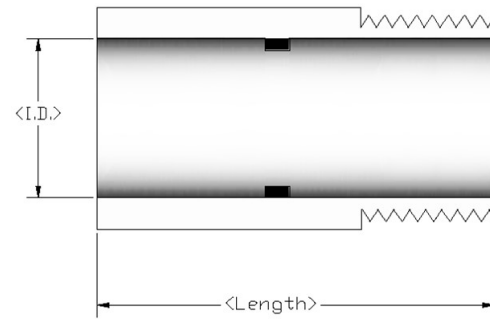
ID Conduit					
Size	AG Part No.	BG Part No.	A	B	L
4" SW	UF40B-SW-AG-530-1	UF40B-SW-BG-530-1	4.17"	4.38"	6"
4" HW	UF40B-HW-AG-530-1	UF40B-HW-BG-530-1	4.23"	4.38"	6"

Additional transition fittings and adaptors can be customized upon request.

FITTINGS – STANDARD WALL & HEAVY WALL

MALE THREADED ADAPTOR

Male adaptors have NPT (tapered) threads and are used to adapt fiberglass conduit to female threads. They may also be used with a standard locknut or a sealing locknut to terminate at a knockout in an enclosure.

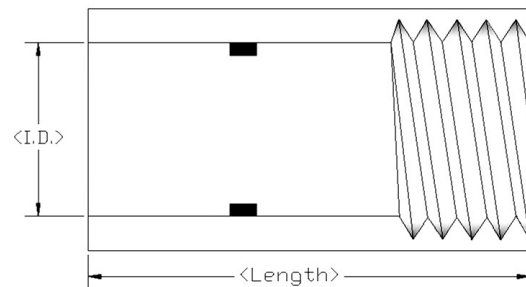


IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-570-1	UF20A-SW-BG-570-1	2.41"	5"
2-1/2" SW	UF25A-SW-AG-570-1	UF25A-SW-BG-570-1	2.94"	5"
3" SW	UF30A-SW-AG-570-1	UF30A-SW-BG-570-1	3.54"	5.5"
4" SW	UF40A-SW-AG-570-1	UF40A-SW-BG-570-1	4.54"	5.5"
4" HW	UF40A-HW-AG-570-1	UF40A-HW-BG-570-1	4.54"	5.5"
5" SW	UF50A-SW-AG-570-1	UF50A-SW-BG-570-1	5.62"	5.5"
5" HW	UF50A-HW-AG-570-1	UF50A-HW-BG-570-1	5.62"	5.5"
6" SW	UF60A-SW-AG-570-1	UF60A-SW-BG-570-1	6.67"	5.5"
6" HW	UF60A-HW-AG-570-1	UF60A-HW-BG-570-1	6.67"	5.5"
8" SW	UF80A-SW-AG-570-1	UF80A-SW-BG-570-1	8.64"	5.5"
8" HW	UF80A-HW-AG-570-1	UF80A-HW-BG-570-1	8.64"	5.5"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-570-1	UF20B-SW-BG-570-1	2.17"	5"
2-1/2" SW	UF25B-SW-AG-570-1	UF25B-SW-BG-570-1	2.67"	5"
3" SW	UF30B-SW-AG-570-1	UF30B-SW-BG-570-1	3.17"	5.5"
3-1/2" SW	UF35B-SW-AG-570-1	UF35B-SW-BG-570-1	3.67"	5.5"
4" SW	UF40B-SW-AG-570-1	UF40B-SW-BG-570-1	4.17"	5.5"
4" HW	UF40B-HW-AG-570-1	UF40B-HW-BG-570-1	4.23"	5.5"
5" SW	UF50B-SW-AG-570-1	UF50B-SW-BG-570-1	5.24"	5.5"
5" HW	UF50B-HW-AG-570-1	UF50B-HW-BG-570-1	5.24"	5.5"
6" SW	UF60B-SW-AG-570-1	UF60B-SW-BG-570-1	6.24"	5.5"
6" HW	UF60B-HW-AG-570-1	UF60B-HW-BG-570-1	6.24"	5.5"

FEMALE THREADED ADAPTOR

Female adaptors have NPT (tapered) threads and are used to adapt fiberglass conduit to male threads.



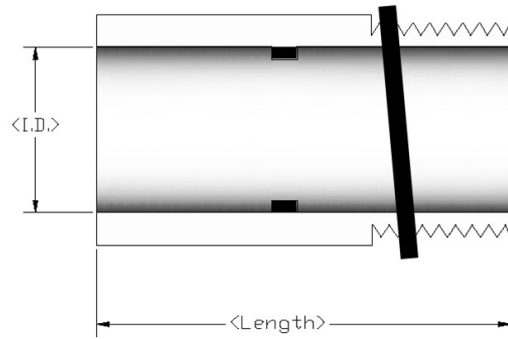
IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-580-1	UF20A-SW-BG-580-1	2.41"	5"
2-1/2" SW	UF25A-SW-AG-580-1	UF25A-SW-BG-580-1	2.94"	5"
3" SW	UF30A-SW-AG-580-1	UF30A-SW-BG-580-1	3.54"	5.5"
4" SW	UF40A-SW-AG-580-1	UF40A-SW-BG-580-1	4.54"	5.5"
4" HW	UF40A-HW-AG-580-1	UF40A-HW-BG-580-1	4.54"	5.5"
5" SW	UF50A-SW-AG-580-1	UF50A-SW-BG-580-1	5.62"	5.5"
5" HW	UF50A-HW-AG-580-1	UF50A-HW-BG-580-1	5.62"	5.5"
6" SW	UF60A-SW-AG-580-1	UF60A-SW-BG-580-1	6.67"	5.5"
6" HW	UF60A-HW-AG-580-1	UF60A-HW-BG-580-1	6.67"	5.5"
8" SW	UF80A-SW-AG-580-1	UF80A-SW-BG-580-1	8.64"	5.5"
8" HW	UF80A-HW-AG-580-1	UF80A-HW-BG-580-1	8.64"	5.5"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-580-1	UF20B-SW-BG-580-1	2.17"	5"
2-1/2" SW	UF25B-SW-AG-580-1	UF25B-SW-BG-580-1	2.67"	5"
3" SW	UF30B-SW-AG-580-1	UF30B-SW-BG-580-1	3.17"	5.5"
3-1/2" SW	UF35B-SW-AG-580-1	UF35B-SW-BG-580-1	3.67"	5.5"
4" SW	UF40B-SW-AG-580-1	UF40B-SW-BG-580-1	4.17"	5.5"
4" HW	UF40B-HW-AG-580-1	UF40B-HW-BG-580-1	4.23"	5.5"
5" SW	UF50B-SW-AG-580-1	UF50B-SW-BG-580-1	5.24"	5.5"
5" HW	UF50B-HW-AG-580-1	UF50B-HW-BG-580-1	5.24"	5.5"
6" SW	UF60B-SW-AG-580-1	UF60B-SW-BG-580-1	6.24"	5.5"
6" HW	UF60B-HW-AG-580-1	UF60B-HW-BG-580-1	6.24"	5.5"

FITTINGS – STANDARD WALL & HEAVY WALL

BOX CONNECTOR

Box connectors have NPT (tapered) threads and a steel locknut. They are used to terminate fiberglass conduit at a knockout in an enclosure. An optional EPDM rubber o-ring is available by changing the 590 part number to a 591.

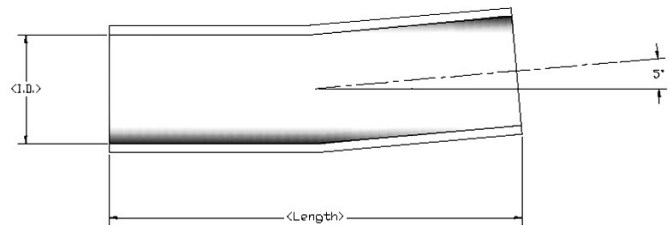


IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-590-1	UF20A-SW-BG-590-1	2.41"	5"
2-1/2" SW	UF25A-SW-AG-590-1	UF25A-SW-BG-590-1	2.94"	5"
3" SW	UF30A-SW-AG-590-1	UF30A-SW-BG-590-1	3.54"	5.5"
4" SW	UF40A-SW-AG-590-1	UF40A-SW-BG-590-1	4.54"	5.5"
4" HW	UF40A-HW-AG-590-1	UF40A-HW-BG-590-1	4.54"	5.5"
5" SW	UF50A-SW-AG-590-1	UF50A-SW-BG-590-1	5.62"	5.5"
5" HW	UF50A-HW-AG-590-1	UF50A-HW-BG-590-1	5.62"	5.5"
6" SW	UF60A-SW-AG-590-1	UF60A-SW-BG-590-1	6.67"	5.5"
6" HW	UF60A-HW-AG-590-1	UF60A-HW-BG-590-1	6.67"	5.5"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-590-1	UF20B-SW-BG-590-1	2.17"	5"
2-1/2" SW	UF25B-SW-AG-590-1	UF25B-SW-BG-590-1	2.67"	5"
3" SW	UF30B-SW-AG-590-1	UF30B-SW-BG-590-1	3.17"	5.5"
3"-1/2" SW	UF35B-SW-AG-590-1	UF35B-SW-BG-590-1	3.67"	5.5"
4" SW	UF40B-SW-AG-590-1	UF40B-SW-BG-590-1	4.17"	5.5"
4" HW	UF40B-HW-AG-590-1	UF40B-HW-BG-590-1	4.23"	5.5"
5" SW	UF50B-SW-AG-590-1	UF50B-SW-BG-590-1	5.24"	5.5"
5" HW	UF50B-HW-AG-590-1	UF50B-HW-BG-590-1	5.24"	5.5"
6" SW	UF60B-SW-AG-590-1	UF60B-SW-BG-590-1	6.24"	5.5"
6" HW	UF60B-HW-AG-590-1	UF60B-HW-BG-590-1	6.24"	5.5"

5 DEGREE COUPLING

5 Degree couplings are used to make slight changes in direction in a conduit run. They may be combined to create offsets. Other angles are available.



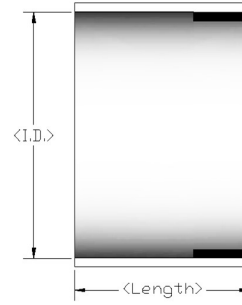
IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-490-1	UF20A-SW-BG-490-1	2.41"	8"
2-1/2" SW	UF25A-SW-AG-490-1	UF25A-SW-BG-490-1	2.94"	8"
3" SW	UF30A-SW-AG-490-1	UF30A-SW-BG-490-1	3.54"	8"
4" SW	UF40A-SW-AG-490-1	UF40A-SW-BG-490-1	4.54"	8"
4" HW	UF40A-HW-AG-490-1	UF40A-HW-BG-490-1	4.54"	8"
5" SW	UF50A-SW-AG-490-1	UF50A-SW-BG-490-1	5.62"	8"
5" HW	UF50A-HW-AG-490-1	UF50A-HW-BG-490-1	5.62"	8"
6" SW	UF60A-SW-AG-490-1	UF60A-SW-BG-490-1	6.67"	8"
6" HW	UF60A-HW-AG-490-1	UF60A-HW-BG-490-1	6.67"	8"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-490-1	UF20B-SW-BG-490-1	2.17"	8"
2-1/2" SW	UF25B-SW-AG-490-1	UF25B-SW-BG-490-1	2.67"	8"
3" SW	UF30B-SW-AG-490-1	UF30B-SW-BG-490-1	3.17"	8"
3-1/2" SW	UF35B-SW-AG-490-1	UF35B-SW-BG-490-1	3.67"	8"
4" SW	UF40B-SW-AG-490-1	UF40B-SW-BG-490-1	4.17"	8"
4" HW	UF40B-HW-AG-490-1	UF40B-HW-BG-490-1	4.23"	8"
5" SW	UF50B-SW-AG-490-1	UF50B-SW-BG-490-1	5.24"	8"/9"
5" HW	UF50B-HW-AG-490-1	UF50B-HW-BG-490-1	5.24"	8"/9"
6" SW	UF60B-SW-AG-490-1	UF60B-SW-BG-490-1	6.24"	8"/9"
6" HW	UF60B-HW-AG-490-1	UF60B-HW-BG-490-1	6.24"	8"/9"

FITTINGS – STANDARD WALL & HEAVY WALL

END BELLS

End bells are used to terminate conduit at a vault, box, or manhole. They have a chamfered radius to protect the cable and are longer to add more support to the conduit end.

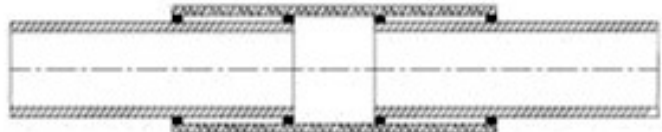


IPS Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20A-SW-AG-485-1	UF20A-SW-BG-485-1	2.41"	5"
2-1/2" SW	UF25A-SW-AG-485-1	UF25A-SW-BG-485-1	2.94"	5"
3" SW	UF30A-SW-AG-485-1	UF30A-SW-BG-485-1	3.54"	5"
4" SW	UF40A-SW-AG-485-1	UF40A-SW-BG-485-1	4.54"	5"
4" HW	UF40A-HW-AG-485-1	UF40A-HW-BG-485-1	4.54"	5"
5" SW	UF50A-SW-AG-485-1	UF50A-SW-BG-485-1	5.62"	5"
5" HW	UF50A-HW-AG-485-1	UF50A-HW-BG-485-1	5.62"	5"
6" SW	UF60A-SW-AG-485-1	UF60A-SW-BG-485-1	6.67"	5"
6" HW	UF60A-HW-AG-485-1	UF60A-HW-BG-485-1	6.67"	5"
8" SW	UF80A-SW-AG-485-1	UF80A-SW-BG-485-1	8.64"	5"
8" HW	UF80A-HW-AG-485-1	UF80A-HW-BG-485-1	8.64"	5"

ID Conduit				
Size	AG Part No.	BG Part No.	ID	L
2" SW	UF20B-SW-AG-485-1	UF20B-SW-BG-485-1	2.17"	5"
2-1/2" SW	UF25B-SW-AG-485-1	UF25B-SW-BG-485-1	2.67"	5"
3" SW	UF30B-SW-AG-485-1	UF30B-SW-BG-485-1	3.17"	5"
3-1/2" SW	UF35B-SW-AG-485-1	UF35B-SW-BG-485-1	3.67"	5"
4" SW	UF40B-SW-AG-485-1	UF40B-SW-BG-485-1	4.17"	5"
4" HW	UF40B-HW-AG-485-1	UF40B-HW-BG-485-1	4.23"	5"
5" SW	UF50B-SW-AG-485-1	UF50B-SW-BG-485-1	5.24"	5"/6"
5" HW	UF50B-HW-AG-485-1	UF50B-HW-BG-485-1	5.24"	5"/6"
6" SW	UF60B-SW-AG-485-1	UF60B-SW-BG-485-1	6.24"	5"/6"
6" HW	UF60B-HW-AG-485-1	UF60B-HW-BG-485-1	6.24"	5"/6"

WOBBLE COUPLING

Wobble couplings allow slight horizontal and vertical fiberglass conduit movements. The ends of these fittings are nominally sized to fit conduit bells or couplings.



IPS Conduit			
Size	AG Part No.	OD	L
2" SW	UF20A-SW-AG-470-1	2.39"	20.5"
2-1/2" SW	UF25A-SW-AG-470-1	2.90"	20.5"
3" SW	UF30A-SW-AG-470-1	3.50"	20.5"
4" SW	UF40A-SW-AG-470-1	4.48"	20.5"
4" HW	UF40A-HW-AG-470-1	4.53"	20.5"
5" SW	UF50A-SW-AG-470-1	5.57"	20.5"
5" HW	UF50A-HW-AG-470-1	5.60"	20.5"
6" SW	UF60A-SW-AG-470-1	6.59"	20.5"
6" HW	UF60A-HW-AG-470-1	6.62"	20.5"
8" SW	UF80A-SW-AG-470-1	8.59"	20.5"
8" HW	UF80A-HW-AG-470-1	8.62"	20.5"

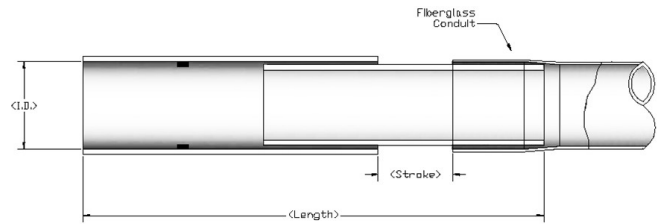
ID Conduit			
Size	AG Part No.	OD	L
2" SW	UF20B-SW-AG-470-1	2.14"	20.5"
2-1/2" SW	UF25B-SW-AG-470-1	2.64"	20.5"
3" SW	UF30B-SW-AG-470-1	3.14"	20.5"
3-1/2" SW	UF35B-SW-AG-470-1	3.64"	20.5"
4" SW	UF40B-SW-AG-470-1	4.14"	20.5"
4" HW	UF40B-HW-AG-470-1	4.19"	20.5"
5" SW	UF50B-SW-AG-470-1	5.19"	20.5"
5" HW	UF50B-HW-AG-470-1	5.22"	20.5"
6" SW	UF60B-SW-AG-470-1	6.19"	20.5"
6" HW	UF60B-HW-AG-470-1	6.22"	20.5"

FITTINGS – STANDARD WALL & HEAVY WALL

EXPANSION JOINT

(without O-ring)

Single expansion joints without o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Socket x spigot construction. For socket x socket, change 400 with 401.



IPS Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20A-SW-AG-400-1	2.41"	27"	8"
2-1/2" SW	UF25A-SW-AG-400-1	2.94"	27"	8"
3" SW	UF30A-SW-AG-400-1	3.54"	27"	8"
4" SW	UF40A-SW-AG-400-1	4.54"	27"	8"
4" HW	UF40A-HW-AG-400-1	4.54"	27"	8"
5" SW	UF50A-SW-AG-400-1	5.62"	27"	8"
5" HW	UF50A-HW-AG-400-1	5.62"	27"	8"
6" SW	UF60A-SW-AG-400-1	6.67"	27"	8"
6" HW	UF60A-HW-AG-400-1	6.67"	27"	8"
8" SW	UF80A-SW-AG-400-1	8.64"	27"	8"
8" HW	UF80A-HW-AG-400-1	8.64"	27"	8"

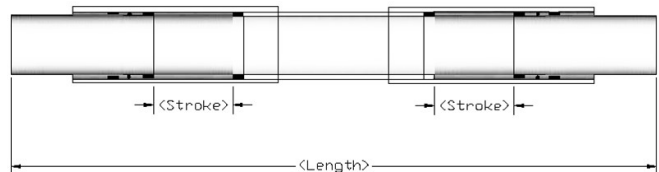
ID Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20B-SW-AG-400-1	2.17"	27"	8"
2-1/2" SW	UF25B-SW-AG-400-1	2.67"	27"	8"
3" SW	UF30B-SW-AG-400-1	3.17"	27"	8"
3-1/2" SW	UF35B-SW-AG-400-1	3.67"	27"	8"
4" SW	UF40B-SW-AG-400-1	4.17"	27"	8"
4" HW	UF40B-HW-AG-400-1	4.23"	27"	8"
5" SW	UF50B-SW-AG-400-1	5.24"	27"	8"
5" HW	UF50B-HW-AG-400-1	5.24"	27"	8"
6" SW	UF60B-SW-AG-400-1	6.24"	27"	8"
6" HW	UF60B-HW-AG-400-1	6.24"	27"	8"

Expansion joints can be manufactured with additional travel. Please consult United Fiberglass for special applications.

BACK-TO-BACK EXPANSION JOINT

(without O-ring)

Back-to-back expansion joints without o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Stop rings are built in the basic design. Spigot x spigot construction. For socket x spigot, change 420 with 421.



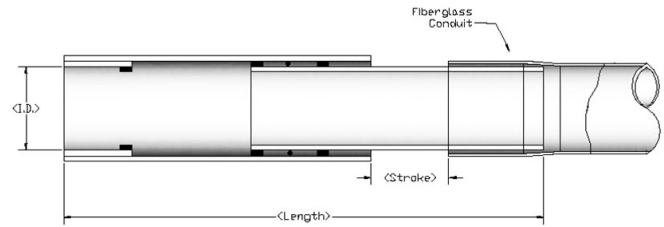
IPS Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20A-SW-AG-420-1	2.41"	56.5"	8"
2-1/2" SW	UF25A-SW-AG-420-1	2.94"	56.5"	8"
3" SW	UF30A-SW-AG-420-1	3.54"	56.5"	8"
4" SW	UF40A-SW-AG-420-1	4.54"	56.5"	8"
4" HW	UF40A-HW-AG-420-1	4.54"	56.5"	8"
5" SW	UF50A-SW-AG-420-1	5.62"	56.5"	8"
5" HW	UF50A-HW-AG-420-1	5.62"	56.5"	8"
6" SW	UF60A-SW-AG-420-1	6.67"	56.5"	8"
6" HW	UF60A-HW-AG-420-1	6.67"	56.5"	8"
8" SW	UF80A-SW-AG-420-1	8.64"	56.5"	8"
8" HW	UF80A-HW-AG-420-1	8.64"	56.5"	8"

ID Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20B-SW-AG-420-1	2.17"	56.5"	8"
2-1/2" SW	UF25B-SW-AG-420-1	2.67"	56.5"	8"
3" SW	UF30B-SW-AG-420-1	3.17"	56.5"	8"
3-1/2" SW	UF35B-SW-AG-420-1	3.67"	56.5"	8"
4" SW	UF40B-SW-AG-420-1	4.17"	56.5"	8"
4" HW	UF40B-HW-AG-420-1	4.23"	56.5"	8"
5" SW	UF50B-SW-AG-420-1	5.24"	56.5"	8"
5" HW	UF50B-HW-AG-420-1	5.24"	56.5"	8"
6" SW	UF60B-SW-AG-420-1	6.24"	56.5"	8"
6" HW	UF60B-HW-AG-420-1	6.24"	56.5"	8"

FITTINGS – STANDARD WALL & HEAVY WALL

O-RING EXPANSION JOINT

Single o-ring expansion joints are used to accommodate changes in conduit length due to temperature fluctuations. Socket x spigot construction. For socket x socket, change 410 with 411.



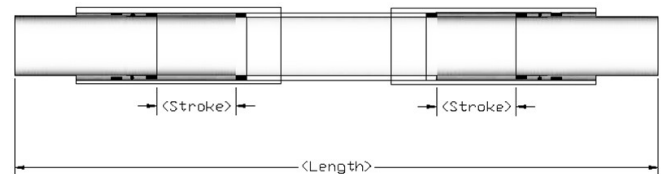
IPS Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20A-SW-AG-410-1	2.41"	27"	8"
2-1/2" SW	UF25A-SW-AG-410-1	2.94"	27"	8"
3" SW	UF30A-SW-AG-410-1	3.54"	27"	8"
4" SW	UF40A-SW-AG-410-1	4.54"	27"	8"
4" HW	UF40A-HW-AG-410-1	4.54"	27"	8"
5" SW	UF50A-SW-AG-410-1	5.62"	27"	8"
5" HW	UF50A-HW-AG-410-1	5.62"	27"	8"
6" SW	UF60A-SW-AG-410-1	6.67"	27"	8"
6" HW	UF60A-HW-AG-410-1	6.67"	27"	8"
8" SW	UF80A-SW-AG-410-1	8.64"	27"	8"
8" HW	UF80A-HW-AG-410-1	8.64"	27"	8"

ID Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20B-SW-AG-410-1	2.17"	27"	8"
2-1/2" SW	UF25B-SW-AG-410-1	2.67"	27"	8"
3" SW	UF30B-SW-AG-410-1	3.17"	27"	8"
3-1/2" SW	UF35B-SW-AG-410-1	3.67"	27"	8"
4" SW	UF40B-SW-AG-410-1	4.17"	27"	8"
4" HW	UF40B-HW-AG-410-1	4.23"	27"	8"
5" SW	UF50B-SW-AG-410-1	5.24"	27"	8"
5" HW	UF50B-HW-AG-410-1	5.24"	27"	8"
6" SW	UF60B-SW-AG-410-1	6.24"	27"	8"
6" HW	UF60B-HW-AG-410-1	6.24"	27"	8"

Expansion joints can be manufactured with additional travel. Please consult United Fiberglass for special applications.

BACK-TO-BACK O-RING EXPANSION JOINT

Back-to-back expansion joints with o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Stop rings are built in the basic design. Spigot x spigot construction. For socket x spigot, change 430 with 431.



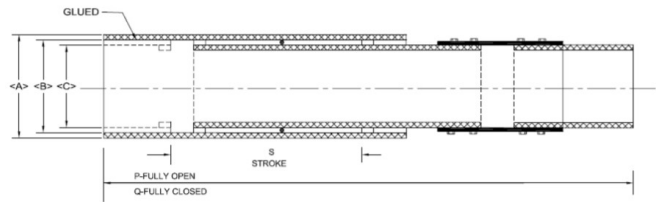
IPS Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20A-SW-AG-420-1	2.41"	56.5"	8"
2-1/2" SW	UF25A-SW-AG-420-1	2.94"	56.5"	8"
3" SW	UF30A-SW-AG-420-1	3.54"	56.5"	8"
4" SW	UF40A-SW-AG-420-1	4.54"	56.5"	8"
4" HW	UF40A-HW-AG-420-1	4.54"	56.5"	8"
5" SW	UF50A-SW-AG-420-1	5.62"	56.5"	8"
5" HW	UF50A-HW-AG-420-1	5.62"	56.5"	8"
6" SW	UF60A-SW-AG-420-1	6.67"	56.5"	8"
6" HW	UF60A-HW-AG-420-1	6.67"	56.5"	8"
8" SW	UF80A-SW-AG-420-1	8.64"	56.5"	8"
8" HW	UF80A-HW-AG-420-1	8.64"	56.5"	8"

ID Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20B-SW-AG-420-1	2.17"	56.5"	8"
2-1/2" SW	UF25B-SW-AG-420-1	2.67"	56.5"	8"
3" SW	UF30B-SW-AG-420-1	3.17"	56.5"	8"
3-1/2" SW	UF35B-SW-AG-420-1	3.67"	56.5"	8"
4" SW	UF40B-SW-AG-420-1	4.17"	56.5"	8"
4" HW	UF40B-HW-AG-420-1	4.23"	56.5"	8"
5" SW	UF50B-SW-AG-420-1	5.24"	56.5"	8"
5" HW	UF50B-HW-AG-420-1	5.24"	56.5"	8"
6" SW	UF60B-SW-AG-420-1	6.24"	56.5"	8"
6" HW	UF60B-HW-AG-420-1	6.24"	56.5"	8"

FITTINGS – STANDARD WALL & HEAVY WALL

O-RING EXPANSION/DEFLECTION JOINT

O-ring expansion/deflection joints are used to accommodate changes in conduit length due to temperature fluctuations and also accommodate for vertical movement/adjustment. Socket x spigot construction. For socket x socket, change 460 with 461. Hanger or support design must adequately separate stacked conduits.



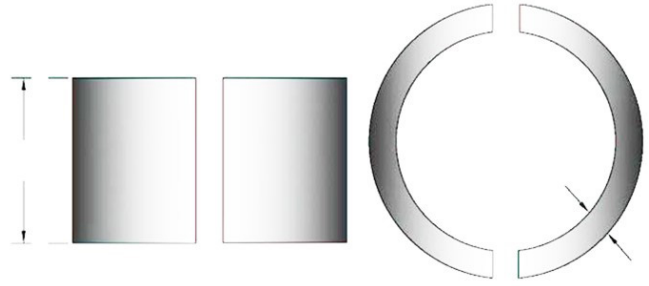
IPS Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20A-SW-AG-460-1	2.41"	31.5"	8"
2-1/2" SW	UF25A-SW-AG-460-1	2.94"	31.5"	8"
3" SW	UF30A-SW-AG-460-1	3.54"	31.5"	8"
4" SW	UF40A-SW-AG-460-1	4.54"	31.5"	8"
4" HW	UF40A-HW-AG-460-1	4.54"	31.5"	8"
5" SW	UF50A-SW-AG-460-1	5.62"	31.5"	8"
5" HW	UF50A-HW-AG-460-1	5.62"	31.5"	8"
6" SW	UF60A-SW-AG-460-1	6.67"	31.5"	8"
6" HW	UF60A-HW-AG-460-1	6.67"	31.5"	8"
8" SW	UF80A-SW-AG-460-1	8.64"	31.5"	8"
8" HW	UF80A-HW-AG-460-1	8.64"	31.5"	8"

ID Conduit				
Size	AG Part No.	ID	L	Stroke
2" SW	UF20B-SW-AG-460-1	2.17"	31.5"	8"
2-1/2" SW	UF25B-SW-AG-460-1	2.67"	31.5"	8"
3" SW	UF30B-SW-AG-460-1	3.17"	31.5"	8"
3-1/2" SW	UF35B-SW-AG-460-1	3.67"	31.5"	8"
4" SW	UF40B-SW-AG-460-1	4.17"	31.5"	8"
4" HW	UF40B-HW-AG-460-1	4.23"	31.5"	8"
5" SW	UF50B-SW-AG-460-1	5.24"	31.5"	8"
5" HW	UF50B-HW-AG-460-1	5.24"	31.5"	8"
6" SW	UF60B-SW-AG-460-1	6.24"	31.5"	8"
6" HW	UF60B-HW-AG-460-1	6.24"	31.5"	8"

FITTINGS – STANDARD WALL & HEAVY WALL

SPLIT STOP RINGS

Split stop rings create a fixed point in between two expansion joints. Two pairs of split stop rings are required for each expansion joint used. They are bonded with adhesive on each side of an anchor point hanger which is placed mid-point between two expansion joints.

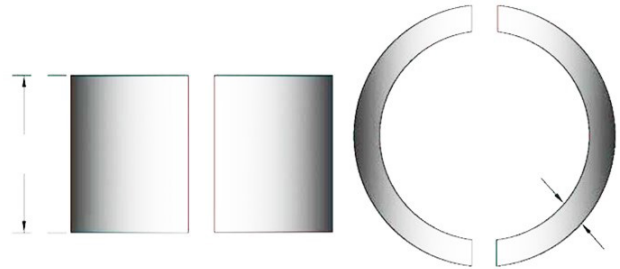


IPS Conduit			
Size	AG Part No.	Wall	L
2" SW	UF20A-SW-AG-440-1	.25"	3"
2-1/2" SW	UF25A-SW-AG-440-1	.25"	3"
3" SW	UF30A-SW-AG-440-1	.25"	3"
4" SW	UF40A-SW-AG-440-1	.25"	3"
4" HW	UF40A-HW-AG-440-1	.25"	3"
5" SW	UF50A-SW-AG-440-1	.25"	3"
5" HW	UF50A-HW-AG-440-1	.25"	3"
6" SW	UF60A-SW-AG-440-1	.25"	3"
6" HW	UF60A-HW-AG-440-1	.25"	3"
8" SW	UF80A-SW-AG-440-1	.25"	3"
8" HW	UF80A-HW-AG-440-1	.25"	3"

ID Conduit			
Size	AG Part No.	Wall	L
2" SW	UF20B-SW-AG-440-1	.25"	3"
2-1/2" SW	UF25B-SW-AG-440-1	.25"	3"
3" SW	UF30B-SW-AG-440-1	.25"	3"
3-1/2" SW	UF35B-SW-AG-440-1	.25"	3"
4" SW	UF40B-SW-AG-440-1	.25"	3"
4" HW	UF40B-HW-AG-440-1	.25"	3"
5" SW	UF50B-SW-AG-440-1	.25"	3"
5" HW	UF50B-HW-AG-440-1	.25"	3"
6" SW	UF60B-SW-AG-440-1	.25"	3"
6" HW	UF60B-HW-AG-440-1	.25"	3"

EXTRA THICK SPLIT STOP RINGS

Extra thick stop rings are used when the hanger support window is designed large enough for the bell ends of the conduit to pass through the window.



IPS Conduit			
Size	AG Part No.	Wall	L
2" SW	UF20A-SW-AG-450-1	.375"	3"
2-1/2" SW	UF25A-SW-AG-450-1	.375"	3"
3" SW	UF30A-SW-AG-450-1	.375"	3"
4" SW	UF40A-SW-AG-450-1	.375"	3"
4" HW	UF40A-HW-AG-450-1	.375"	3"
5" SW	UF50A-SW-AG-450-1	.375"	3"
5" HW	UF50A-HW-AG-450-1	.375"	3"
6" SW	UF60A-SW-AG-450-1	.375"	3"
6" HW	UF60A-HW-AG-450-1	.375"	3"
8" SW	UF80A-SW-AG-450-1	.375"	3"
8" HW	UF80A-HW-AG-450-1	.375"	3"

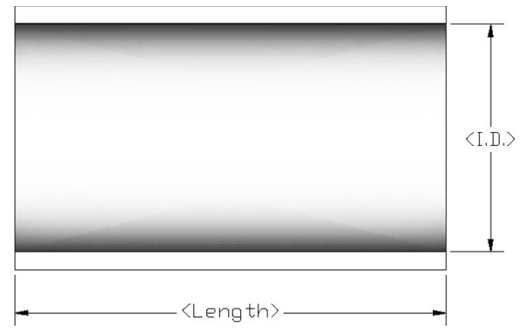
ID Conduit			
Size	AG Part No.	Wall	L
2" SW	UF20B-SW-AG-450-1	.375"	3"
2-1/2" SW	UF25B-SW-AG-450-1	.375"	3"
3" SW	UF30B-SW-AG-450-1	.375"	3"
3-1/2" SW	UF35B-SW-AG-450-1	.375"	3"
4" SW	UF40B-SW-AG-450-1	.375"	3"
4" HW	UF40B-HW-AG-450-1	.375"	3"
5" SW	UF50B-SW-AG-450-1	.375"	3"
5" HW	UF50B-HW-AG-450-1	.375"	3"
6" SW	UF60B-SW-AG-450-1	.375"	3"
6" HW	UF60B-HW-AG-450-1	.375"	3"

FITTINGS – EXTRA HEAVY WALL

XW SLEEVE COUPLING

Sleeve couplings are used to join spigot ends of conduit, as sleeves through a bridge abutment wall, or as sleeves at a hanger support window. They are also used to repair conduit.

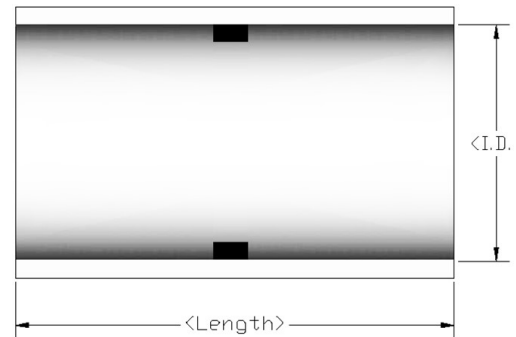
Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-500-1	1.42"	6"
1" XW	UF10A-XW-AG-500-1	1.68"	6"
1-1/4" XW	UF12A-XW-AG-500-1	2.03"	6"
1-1/2" XW	UF15A-XW-AG-500-1	2.27"	6"
2" XW	UF20B-XW-AG-500-1	2.52"	6"
2-1/2" XW	UF25B-XW-AG-500-1	3.02"	6"
3" XW	UF30B-XW-AG-500-1	3.52"	6"
3-1/2" XW	UF35B-XW-AG-500-1	4.02"	6"
4" XW	UF40B-XW-AG-500-1	4.52"	6"
5" XW	UF50B-XW-AG-500-1	5.52"	6"
6" XW	UF60B-XW-AG-500-1	6.52"	6"
8" XW	UF80A-XW-AG-500-1	8.92"	6"



XW STOP COUPLING

Stop couplings, or double bell couplings are used to join spigot ends of conduit.

Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-510-1	1.42"	6.5"
1" XW	UF10A-XW-AG-510-1	1.68"	6.5"
1-1/4" XW	UF12A-XW-AG-510-1	2.03"	6.5"
1-1/2" XW	UF15A-XW-AG-510-1	2.27"	6.5"
2" XW	UF20B-XW-AG-510-1	2.52"	6.5"
2-1/2" XW	UF25B-XW-AG-510-1	3.02"	6.5"
3" XW	UF30B-XW-AG-510-1	3.52"	6.5"
3-1/2" XW	UF35B-XW-AG-510-1	4.02"	6.5"
4" XW	UF40B-XW-AG-510-1	4.52"	6.5"
5" XW	UF50B-XW-AG-510-1	5.52"	6.5"
6" XW	UF60B-XW-AG-510-1	6.52"	6.5"
8" XW	UF80A-XW-AG-510-1	8.92"	6.5"

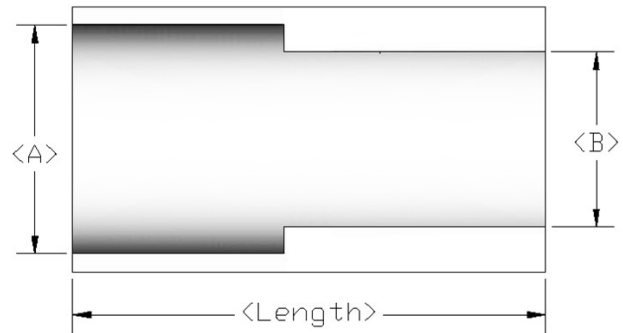


FITTINGS – EXTRA HEAVY WALL

XW PVC SCHEDULE 40 ADAPTOR

PVC adaptors are used to join fiberglass conduit to PVC schedule 40 and schedule 80 PVC conduit.

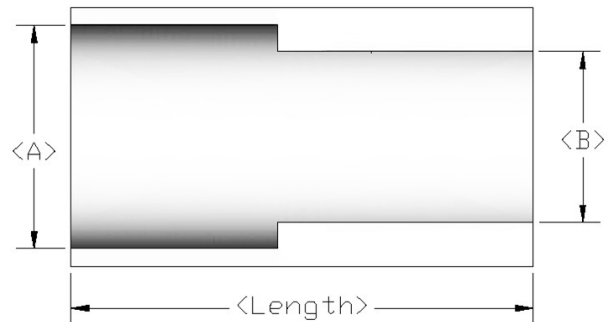
Size	XW Part No.	A	B	L
3/4" XW	UF75A-XW-AG-520-1	1.42"	1.09"	6"
1" XW	UF10A-XW-AG-520-1	1.68"	1.37"	6"
1-1/4" XW	UF12A-XW-AG-520-1	2.03"	1.68"	6"
1-1/2" XW	UF15A-XW-AG-520-1	2.27"	1.94"	6"
2" XW	UF20B-XW-AG-520-1	2.52"	2.41"	6"
2-1/2" XW	UF25B-XW-AG-520-1	3.02"	2.94"	6"
3" XW	UF30B-XW-AG-520-1	3.54"	3.54"	6"
3-1/2" XW	UF35B-XW-AG-520-1	4.02"	4.02"	6"
4" XW	UF40B-XW-AG-520-1	4.54"	4.54"	6"
5" XW	UF50B-XW-AG-520-1	5.52"	5.62"	6"
6" XW	UF60B-XW-AG-520-1	6.52"	6.67"	6"
8" XW	UF80A-XW-AG-520-1	8.92"	8.64"	8.5"



XW PVC C-DUCT ADAPTOR

PVC adaptors are used to join fiberglass conduit to PVC C-Duct conduit.

Size	XW Part No.	A	B	L
4" XW	UF40B-XW-AG-530-1	4.54"	4.38"	6"



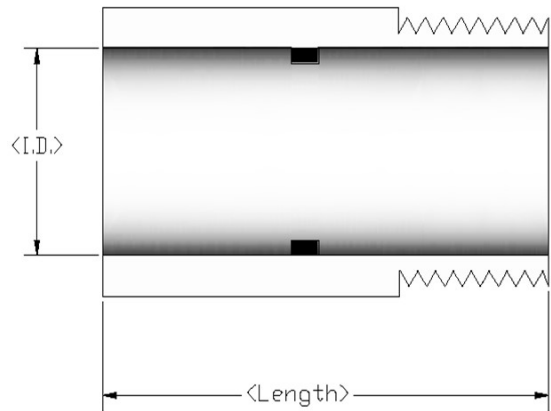
Additional transition fittings and adaptors can be customized upon request.

FITTINGS – EXTRA HEAVY WALL

XW MALE THREADED

Male adaptors have NPT (tapered) threads and are used to adapt fiberglass conduit to female threads. They may also be used with a standard locknut or a sealing locknut to terminate at a knockout in an enclosure.

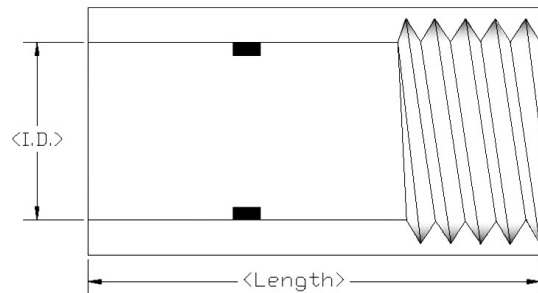
Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-570-1	1.42"	4"
1" XW	UF10A-XW-AG-570-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-570-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-570-1	2.27"	4"
2" XW	UF20B-XW-AG-570-1	2.52"	5"
2-1/2" XW	UF25B-XW-AG-570-1	3.02"	5"
3" XW	UF30B-XW-AG-570-1	3.52"	5.5"
3-1/2" XW	UF35B-XW-AG-570-1	4.02"	5.5"
4" XW	UF40B-XW-AG-570-1	4.52"	5.5"
5" XW	UF50B-XW-AG-570-1	5.52"	5.5"
6" XW	UF60B-XW-AG-570-1	6.52"	5.5"
8" XW	UF80A-XW-AG-570-1	8.92"	5.5"



XW FEMALE THREADED ADAPTOR

Female adaptors have NPT (tapered) threads and are used to adapt fiberglass conduit to male threads.

Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-580-1	1.42"	4"
1" XW	UF10A-XW-AG-580-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-580-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-580-1	2.27"	4"
2" XW	UF20B-XW-AG-580-1	2.52"	5"
2-1/2" XW	UF25B-XW-AG-580-1	3.02"	5"
3" XW	UF30B-XW-AG-580-1	3.52"	5.5"
3-1/2" XW	UF35B-XW-AG-580-1	4.02"	5.5"
4" XW	UF40B-XW-AG-580-1	4.52"	5.5"
5" XW	UF50B-XW-AG-580-1	5.52"	5.5"
6" XW	UF60B-XW-AG-580-1	6.52"	5.5"
8" XW	UF80A-XW-AG-580-1	8.92"	5.5"

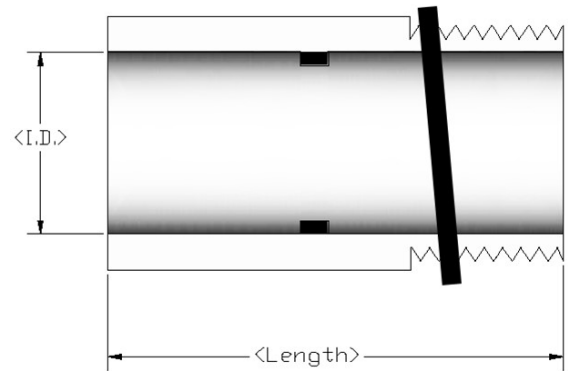


FITTINGS – EXTRA HEAVY WALL

XW BOX CONNECTOR

Box connectors have NPT (tapered) threads and a steel locknut. They are used to terminate fiberglass conduit at a knockout in an enclosure. An optional EPDM rubber o-ring is available by changing the 590 part number to a 591.

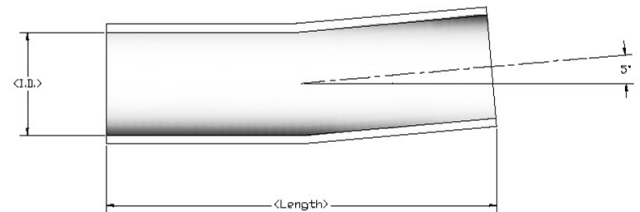
Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-590-1	1.42"	4"
1" XW	UF10A-XW-AG-590-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-590-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-590-1	2.27"	4"
2" XW	UF20B-XW-AG-590-1	2.52"	5"
2-1/2" XW	UF25B-XW-AG-590-1	3.02"	5"
3" XW	UF30B-XW-AG-590-1	3.54"	5.5"
3-1/2" XW	UF35B-XW-AG-590-1	4.02"	5.5"
4" XW	UF40B-XW-AG-590-1	4.54"	5.5"
5" XW	UF50B-XW-AG-590-1	5.52"	5.5"
6" XW	UF60B-XW-AG-590-1	6.52"	5.5"



XW 5 DEGREE COUPLING

5 Degree couplings are used to make slight changes in direction in a conduit run. They may be combined to create offsets. Other angles are available.

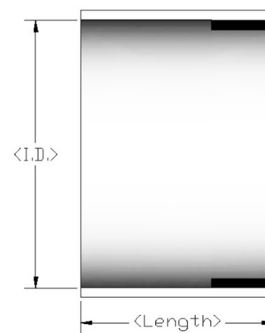
Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-490-1	1.42"	8"
1" XW	UF10A-XW-AG-490-1	1.68"	8"
1-1/4" XW	UF12A-XW-AG-490-1	2.03"	8"
1-1/2" XW	UF15A-XW-AG-490-1	2.27"	8"
2" XW	UF20B-XW-AG-490-1	2.52"	8"
2-1/2" XW	UF25B-XW-AG-490-1	3.02"	8"
3" XW	UF30B-XW-AG-490-1	3.54"	8"
3-1/2" XW	UF35B-XW-AG-490-1	4.02"	8"
4" XW	UF40B-XW-AG-490-1	4.54"	8"
5" XW	UF50B-XW-AG-490-1	5.52"	8"
6" XW	UF60B-XW-AG-490-1	6.52"	8"



FITTINGS – EXTRA HEAVY WALL

XW END BELLS

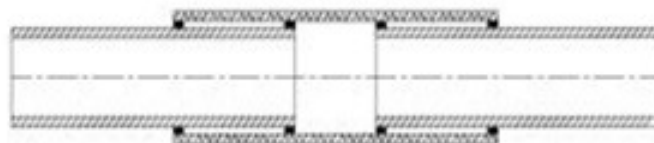
End bells are used to terminate conduit at a vault, box, or manhole. They have a chamfered radius to protect the cable and are longer to add more support to the conduit end.



Size	XW Part No.	ID	L
3/4" XW	UF75A-XW-AG-485-1	1.42"	4"
1" XW	UF10A-XW-AG-485-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-485-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-485-1	2.27"	4"
2" XW	UF20B-XW-AG-485-1	2.52"	5"
2-1/2" XW	UF25B-XW-AG-485-1	3.02"	5"
3" XW	UF30B-XW-AG-485-1	3.52"	5"
3-1/2" XW	UF35B-XW-AG-485-1	4.02"	5"
4" XW	UF40B-XW-AG-485-1	4.52"	5"
5" XW	UF50B-XW-AG-485-1	5.52"	5"
6" XW	UF60B-XW-AG-485-1	6.52"	5"
8" XW	UF80A-XW-AG-485-1	8.92"	5"

XW WOBBLE COUPLING

Wobble couplings allow slight horizontal and vertical fiberglass conduit movements. The ends of these fittings are nominally sized to fit conduit bells or couplings.



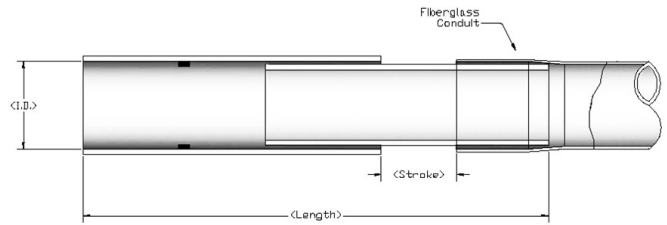
Size	XW Part No.	OD	L
3/4" XW	UF75A-XW-AG-470-1	1.40"	20.5"
1" XW	UF10A-XW-AG-470-1	1.66"	20.5"
1-1/4" XW	UF12A-XW-AG-470-1	2.01"	20.5"
1-1/2" XW	UF15A-XW-AG-470-1	2.25"	20.5"
2" XW	UF20B-XW-AG-470-1	2.50"	20.5"
2-1/2" XW	UF25B-XW-AG-470-1	3.00"	20.5"
3" XW	UF30B-XW-AG-470-1	3.50"	20.5"
3-1/2" XW	UF35B-XW-AG-470-1	4.00"	20.5"
4" XW	UF40B-XW-AG-470-1	4.50"	20.5"
5" XW	UF50B-XW-AG-470-1	5.50"	20.5"
6" XW	UF60B-XW-AG-470-1	6.50"	20.5"

FITTINGS – EXTRA HEAVY WALL

XW EXPANSION JOINT

Single, Without O-Ring, Socket x Spigot

End bells are used to terminate conduit at a vault, box, or manhole. They have a chamfered radius to protect the cable and are longer to add more support to the conduit end.



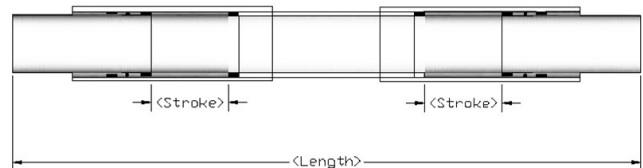
Size	XW Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-400-1	1.42"	27"	8"
1" XW	UF10A-XW-AG-400-1	1.68"	27"	8"
1-1/4" XW	UF12A-XW-AG-400-1	2.03"	27"	8"
1-1/2" XW	UF15A-XW-AG-400-1	2.27"	27"	8"
2" XW	UF20B-XW-AG-400-1	2.52"	27"	8"
2-1/2" XW	UF25B-XW-AG-400-1	3.02"	27"	8"
3" XW	UF30B-XW-AG-400-1	3.52"	27"	8"
3-1/2" XW	UF35B-XW-AG-400-1	4.02"	27"	8"
4" XW	UF40B-XW-AG-400-1	4.52"	27"	8"
5" XW	UF50B-XW-AG-400-1	5.52"	27"	8"
6" XW	UF60B-XW-AG-400-1	6.52"	28"	8"
8" XW	UF80A-XW-AG-400-1	8.92"	28"	8"

Expansion joints can be manufactured with additional travel. Please consult UF for special applications.

XW BACK-TO-BACK EXPANSION JOINT

Without O-Ring, Spigot x Spigot

Back-to-back expansion joints without o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Stop rings are built in the basic design. Spigot x spigot construction. For socket x spigot, change 420 with 421.



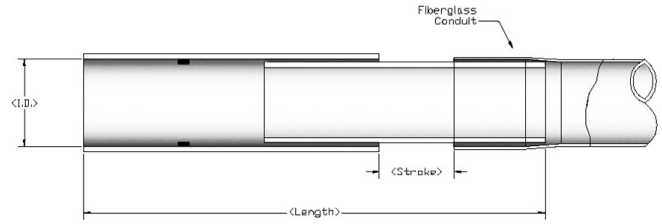
Size	XW Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-420-1	1.42"	56.5"	8"
1" XW	UF10A-XW-AG-420-1	1.68"	56.5"	8"
1-1/4" XW	UF12A-XW-AG-420-1	2.03"	56.5"	8"
1-1/2" XW	UF15A-XW-AG-420-1	2.27"	56.5"	8"
2" XW	UF20B-XW-AG-420-1	2.52"	56.5"	8"
2-1/2" XW	UF25B-XW-AG-420-1	3.02"	56.5"	8"
3" XW	UF30B-XW-AG-420-1	3.52"	56.5"	8"
3-1/2" XW	UF35B-XW-AG-420-1	4.02"	56.5"	8"
4" XW	UF40B-XW-AG-420-1	4.52"	56.5"	8"
5" XW	UF50B-XW-AG-420-1	5.52"	56.5"	8"
6" XW	UF60B-XW-AG-420-1	6.52"	58.5"	8"
8" XW	UF80A-XW-AG-420-1	8.92"	58.5"	8"

FITTINGS – EXTRA HEAVY WALL

XW O-RING EXPANSION JOINT

Single, Socket x Spigot

Single o-ring expansion joints are used to accommodate changes in conduit length due to temperature fluctuations. Socket x spigot construction. For socket x socket, change 405 with 406.



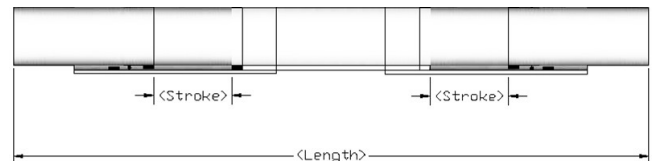
Size	XW Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-405-1	1.42"	27"	9.5"
1" XW	UF10A-XW-AG-405-1	1.68"	27"	9.5"
1-1/4" XW	UF12A-XW-AG-405-1	2.03"	27"	9.5"
1-1/2" XW	UF15A-XW-AG-405-1	2.27"	27"	9.5"
2" XW	UF20B-XW-AG-405-1	2.52"	27"	9.5"
2-1/2" XW	UF25B-XW-AG-405-1	3.02"	27"	9.5"
3" XW	UF30B-XW-AG-405-1	3.52"	27"	9.5"
3-1/2" XW	UF35B-XW-AG-405-1	4.02"	27"	9.5"
4" XW	UF40B-XW-AG-405-1	4.52"	27"	9.5"
5" XW	UF50B-XW-AG-405-1	5.52"	27"	9.5"
6" XW	UF60B-XW-AG-405-1	6.52"	28"	9.5"
8" XW	UF80A-XW-AG-405-1	8.92"	28"	9.75"

Expansion joints can be manufactured with additional travel. Please consult UF for special applications.

XW BACK-TO-BACK EXPANSION JOINT

With O-Ring, Spigot x Spigot

Back-to-back expansion joints with o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Stop rings are built in the basic design. Spigot x spigot construction. For socket x spigot, change 435 with 436.



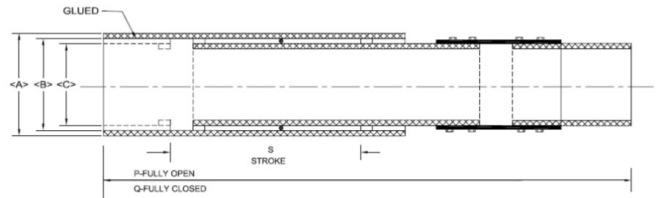
Size	XW Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-435-1	1.42"	56.5"	8"
1" XW	UF10A-XW-AG-435-1	1.68"	56.5"	8"
1-1/4" XW	UF12A-XW-AG-435-1	2.03"	56.5"	8"
1-1/2" XW	UF15A-XW-AG-435-1	2.27"	56.5"	8"
2" XW	UF20B-XW-AG-435-1	2.52"	56.5"	8"
2-1/2" XW	UF25B-XW-AG-435-1	3.02"	56.5"	8"
3" XW	UF30B-XW-AG-435-1	3.52"	56.5"	8"
3-1/2" XW	UF35B-XW-AG-435-1	4.02"	56.5"	8"
4" XW	UF40B-XW-AG-435-1	4.52"	56.5"	8"
5" XW	UF50B-XW-AG-435-1	5.52"	56.5"	8"
6" XW	UF60B-XW-AG-435-1	6.52"	58.5"	8"
8" XW	UF80A-XW-AG-435-1	8.92"	58.5"	8"

FITTINGS – EXTRA HEAVY WALL

XW EXPANSION/DEFLECTION JOINT

Single, With O-Ring, Socket x Spigot

O-ring expansion/deflection joints are used to accommodate changes in conduit length due to temperature fluctuations and also accommodate for vertical movement/adjustment. Socket x spigot construction. For socket x socket, change 465 with 466. Hanger or support design must adequately separate stacked conduits.



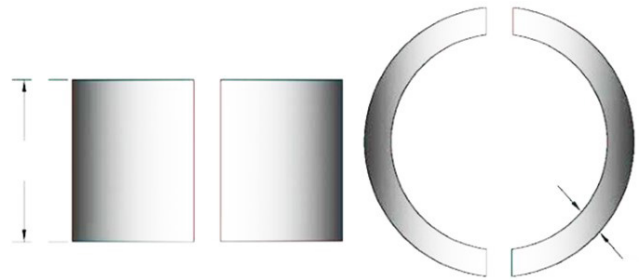
Size	XW Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-465-1	1.42"	45"	8"
1" XW	UF10A-XW-AG-465-1	1.68"	45"	8"
1-1/4" XW	UF12A-XW-AG-465-1	2.03"	45"	8"
1-1/2" XW	UF15A-XW-AG-465-1	2.27"	45"	8"
2" XW	UF20B-XW-AG-465-1	2.52"	45"	8"
2-1/2" XW	UF25B-XW-AG-465-1	3.02"	45"	8"
3" XW	UF30B-XW-AG-465-1	3.52"	45"	8"
3-1/2" XW	UF35B-XW-AG-465-1	4.02"	45"	8"
4" XW	UF40B-XW-AG-465-1	4.52"	45"	8"
5" XW	UF50B-XW-AG-465-1	5.52"	45"	8"
6" XW	UF60B-XW-AG-465-1	6.52"	45"	8"
8" XW	UF80A-XW-AG-465-1	8.92"	45"	8"

Expansion joints can be manufactured with additional travel. Please consult UF for special applications.

XW SPLIT STOP RINGS

Split stop rings create a fixed point in between two expansion joints. Two pairs of split stop rings are required for each expansion joint used. They are bonded with adhesive on each side of an anchor point hanger which is placed mid-point between two expansion joints.

Extra thick stop rings are used when the hanger support window is designed large enough for the bell ends of the conduit to pass through the window.



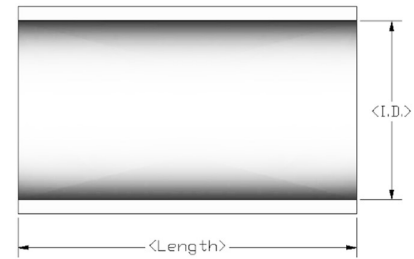
Diameter	XW Part No.	Wall	L
3/4" XW	UF75A-XW-AG-440-1	.25"	3"
1" XW	UF10A-XW-AG-440-1	.25"	3"
1-1/4" XW	UF12A-XW-AG-440-1	.25"	3"
1-1/2" XW	UF15A-XW-AG-440-1	.25"	3"
2" XW	UF20B-XW-AG-440-1	.25"	3"
2-1/2" XW	UF25B-XW-AG-440-1	.25"	3"
3" XW	UF30B-XW-AG-440-1	.25"	3"
3-1/2" XW	UF35B-XW-AG-440-1	.25"	3"
4" XW	UF40B-XW-AG-440-1	.25"	3"
5" XW	UF50B-XW-AG-440-1	.25"	3"
6" XW	UF60B-XW-AG-440-1	.25"	3"
8" XW	UF80A-XW-AG-440-1	.25"	3"

Diameter	XW Part No.	Wall	L
3/4" XW	UF75A-XW-AG-450-1	.375"	3"
1" XW	UF10A-XW-AG-450-1	.375"	3"
1-1/4" XW	UF12A-XW-AG-450-1	.375"	3"
1-1/2" XW	UF15A-XW-AG-450-1	.375"	3"
2" XW	UF20B-XW-AG-450-1	.375"	3"
2-1/2" XW	UF25B-XW-AG-450-1	.375"	3"
3" XW	UF30B-XW-AG-450-1	.375"	3"
3-1/2" XW	UF35B-XW-AG-450-1	.375"	3"
4" XW	UF40B-XW-AG-450-1	.375"	3"
5" XW	UF50B-XW-AG-450-1	.375"	3"
6" XW	UF60B-XW-AG-450-1	.375"	3"
8" XW	UF80A-XW-AG-450-1	.375"	3"

FITTINGS – SMALL DIAMETER

SLEEVE COUPLING

Sleeve couplings are used to join spigot ends of conduit, as sleeves through a bridge abutment wall, or as sleeves at a hanger support window. They are also used to repair conduit.

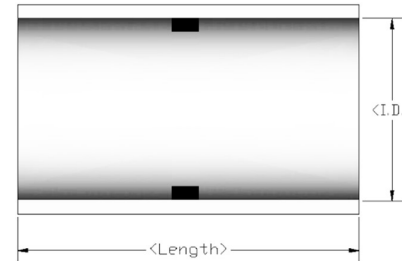


IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-500-1	1.09"	6"
1" SW	UF10A-SW-AG-500-1	1.37"	6"
1 1/4" SW	UF12A-SW-AG-500-1	1.69"	6"
1 1/2" SW	UF15A-SW-AG-500-1	1.94"	6"
2" SW	UF20A-SW-AG-500-1	2.41"	6"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-500-1	1.42"	6"
1" XW	UF10A-XW-AG-500-1	1.68"	6"
1-1/4" XW	UF12A-XW-AG-500-1	2.03"	6"
1-1/2" XW	UF15A-XW-AG-500-1	2.27"	6"
2" XW	UF20B-XW-AG-500-1	2.52"	6"

STOP COUPLING

Stop couplings, or double bell couplings are used to join spigot ends of conduit.

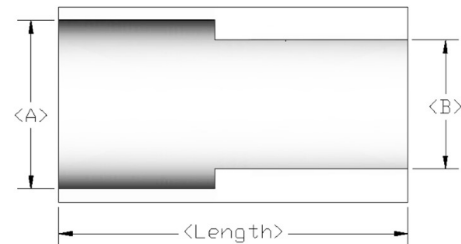


IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-510-1	1.09"	6.5"
1" SW	UF10A-SW-AG-510-1	1.37"	6.5"
1 1/4" SW	UF12A-SW-AG-510-1	1.69"	6.5"
1 1/2" SW	UF15A-SW-AG-510-1	1.94"	6.5"
2" SW	UF20A-SW-AG-510-1	2.41"	6.5"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-510-1	1.42"	6.5"
1" XW	UF10A-XW-AG-510-1	1.68"	6.5"
1-1/4" XW	UF12A-XW-AG-510-1	2.03"	6.5"
1-1/2" XW	UF15A-XW-AG-510-1	2.27"	6.5"
2" XW	UF20B-XW-AG-510-1	2.52"	6.5"

PVC SCHEDULE 40 ADAPTOR

PVC adaptors are used to join fiberglass conduit to PVC Schedule 40 and Schedule 80 PVC conduit.



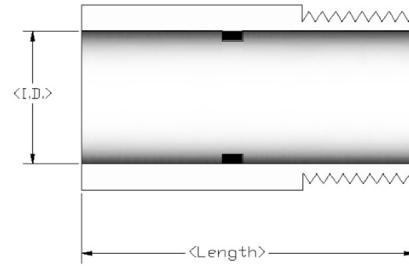
IPS Conduit				
Size	AG Part No.	A	B	L
3/4" SW	UF75A-SW-AG-520-1	1.09"	1.09"	6.5"
1" SW	UF10A-SW-AG-520-1	1.37"	1.37"	6.5"
1 1/4" SW	UF12A-SW-AG-520-1	1.69"	1.69"	6.5"
1 1/2" SW	UF15A-SW-AG-520-1	1.94"	1.94"	6.5"
2" SW	UF20A-SW-AG-520-1	2.41"	2.41"	6.5"

XW Conduit				
Size	AG Part No.	A	B	L
3/4" XW	UF75A-XW-AG-520-1	1.42"	1.09"	6"
1" XW	UF10A-XW-AG-520-1	1.68"	1.37"	6"
1-1/4" XW	UF12A-XW-AG-520-1	2.03"	1.69"	6"
1-1/2" XW	UF15A-XW-AG-520-1	2.27"	1.94"	6"
2" XW	UF20B-XW-AG-520-1	2.52"	2.41"	6"

FITTINGS – SMALL DIAMETER

MALE THREADED ADAPTOR

Male adaptors have NPT (tapered) threads and are used to adapt fiberglass conduit to female threads. They may also be used with a standard locknut or a sealing locknut to terminate at a knockout in an enclosure.

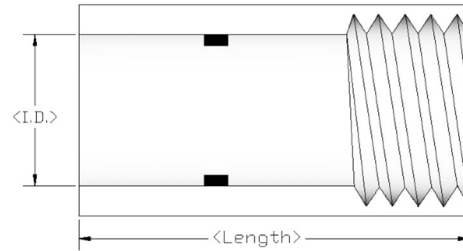


IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-570-1	1.09"	4"
1" SW	UF10A-SW-AG-570-1	1.37"	4"
1 1/4" SW	UF12A-SW-AG-570-1	1.69"	4"
1 1/2" SW	UF15A-SW-AG-570-1	1.94"	4"
2" SW	UF20A-SW-AG-570-1	2.41"	5"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-570-1	1.42"	4"
1" XW	UF10A-XW-AG-570-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-570-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-570-1	2.27"	4"
2" XW	UF20B-XW-AG-570-1	2.52"	5"

FEMALE THREADED ADAPTOR

Female adaptors have NPT (tapered) threads and are used to adapt fiberglass conduit to male threads.

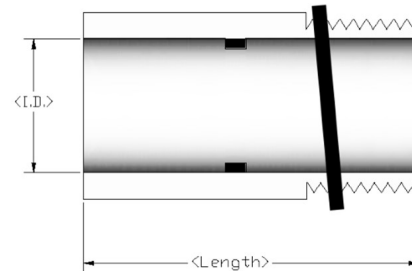


IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-580-1	1.09"	4"
1" SW	UF10A-SW-AG-580-1	1.37"	4"
1 1/4" SW	UF12A-SW-AG-580-1	1.69"	4"
1 1/2" SW	UF15A-SW-AG-580-1	1.94"	4"
2" SW	UF20A-SW-AG-580-1	2.41"	5"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-580-1	1.42"	4"
1" XW	UF10A-XW-AG-580-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-580-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-580-1	2.27"	4"
2" XW	UF20B-XW-AG-580-1	2.52"	5"

BOX CONNECTOR

Box connectors have NPT (tapered) threads and a steel locknut. They are used to terminate fiberglass conduit at a knockout in an enclosure. An optional EPDM rubber o-ring is available by changing the 590 part number to a 591.



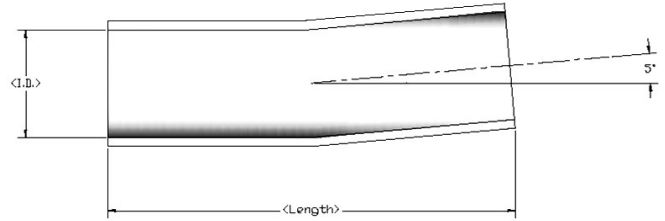
IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-590-1	1.09"	4"
1" SW	UF10A-SW-AG-590-1	1.37"	4"
1 1/4" SW	UF12A-SW-AG-590-1	1.69"	4"
1 1/2" SW	UF15A-SW-AG-590-1	1.94"	4"
2" SW	UF20A-SW-AG-590-1	2.41"	5"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-590-1	1.42"	4"
1" XW	UF10A-XW-AG-590-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-590-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-590-1	2.27"	4"
2" XW	UF20B-XW-AG-590-1	2.52"	5"

FITTINGS – SMALL DIAMETER

5 DEGREE COUPLING

5 Degree couplings are used to make slight changes in direction in a conduit run. They may be combined to create offsets. Other angles are available.

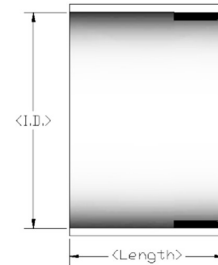


IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-490-1	1.09"	8"
1" SW	UF10A-SW-AG-490-1	1.37"	8"
1 1/4" SW	UF12A-SW-AG-490-1	1.69"	8"
1 1/2" SW	UF15A-SW-AG-490-1	1.94"	8"
2" SW	UF20A-SW-AG-490-1	2.41"	8"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-490-1	1.42"	8"
1" XW	UF10A-XW-AG-490-1	1.68"	8"
1-1/4" XW	UF12A-XW-AG-490-1	2.03"	8"
1-1/2" XW	UF15A-XW-AG-490-1	2.27"	8"
2" XW	UF20B-XW-AG-490-1	2.52"	8"

END BELL

End bells are used to terminate conduit at a vault, box, or manhole. They have a chamfered radius to protect the cable and are longer to add more support to the conduit end.



IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-485-1	1.09"	4"
1" SW	UF10A-SW-AG-485-1	1.37"	4"
1 1/4" SW	UF12A-SW-AG-485-1	1.69"	4"
1 1/2" SW	UF15A-SW-AG-485-1	1.94"	4"
2" SW	UF20A-SW-AG-485-1	2.41"	5"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-485-1	1.42"	4"
1" XW	UF10A-XW-AG-485-1	1.68"	4"
1-1/4" XW	UF12A-XW-AG-485-1	2.03"	4"
1-1/2" XW	UF15A-XW-AG-485-1	2.27"	4"
2" XW	UF20B-XW-AG-485-1	2.52"	5"

WOBBLE COUPLING

Wobble couplings allow slight horizontal and vertical fiberglass conduit movements. The ends of these fittings are nominally sized to fit conduit bells or couplings.



IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-470-1	1.02"	20.5"
1" SW	UF10A-SW-AG-470-1	1.32"	20.5"
1 1/4" SW	UF12A-SW-AG-470-1	1.65"	20.5"
1 1/2" SW	UF15A-SW-AG-470-1	1.89"	20.5"
2" SW	UF20A-SW-AG-470-1	2.39"	20.5"

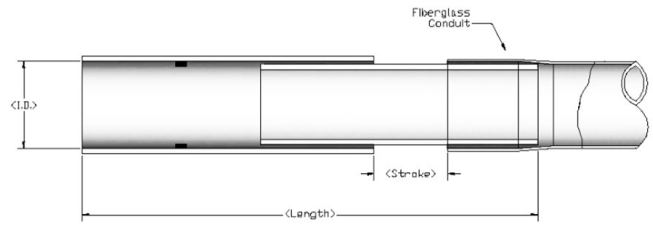
XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-470-1	1.40"	20.5"
1" XW	UF10A-XW-AG-470-1	1.66"	20.5"
1-1/4" XW	UF12A-XW-AG-470-1	2.01"	20.5"
1-1/2" XW	UF15A-XW-AG-470-1	2.25"	20.5"
2" XW	UF20B-XW-AG-470-1	2.50"	20.5"

FITTINGS – SMALL DIAMETER

EXPANSION JOINT

(without O-ring)

Single expansion joints without o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Socket x spigot construction. For socket x socket, change 400 with 401.

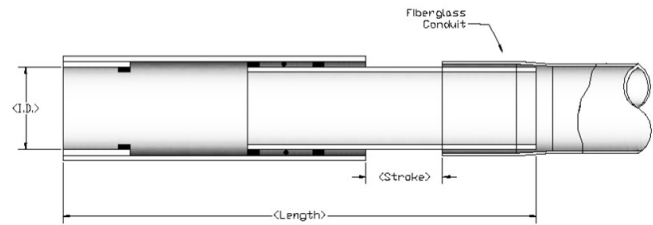


IPS Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" SW	UF75A-SW-AG-400-1	1.09"	27"	8"
1" SW	UF10A-SW-AG-400-1	1.37"	27"	8"
1 1/4" SW	UF12A-SW-AG-400-1	1.69"	27"	8"
1 1/2" SW	UF15A-SW-AG-400-1	1.94"	27"	8"
2" SW	UF20A-SW-AG-400-1	2.41"	27"	8"

XW Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-400-1	1.42"	27"	8"
1" XW	UF10A-XW-AG-400-1	1.68"	27"	8"
1-1/4" XW	UF12A-XW-AG-400-1	2.03"	27"	8"
1-1/2" XW	UF15A-XW-AG-400-1	2.27"	27"	8"
2" XW	UF20B-XW-AG-400-1	2.52"	27"	8"

O-RING EXPANSION JOINT

Single o-ring expansion joints are used to accommodate changes in conduit length due to temperature fluctuations. Socket x spigot construction. For socket x socket, change 410 with 411 or 405 with 406.

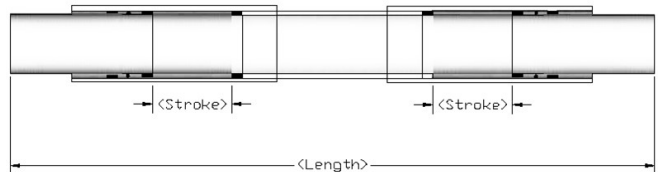


IPS Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" SW	UF75A-SW-AG-410-1	1.09"	27"	8"
1" SW	UF10A-SW-AG-410-1	1.37"	27"	8"
1 1/4" SW	UF12A-SW-AG-410-1	1.69"	27"	8"
1 1/2" SW	UF15A-SW-AG-410-1	1.94"	27"	8"
2" SW	UF20A-SW-AG-410-1	2.41"	27"	8"

XW Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-405-1	1.42"	27"	8"
1" XW	UF10A-XW-AG-405-1	1.68"	27"	8"
1-1/4" XW	UF12A-XW-AG-405-1	2.03"	27"	8"
1-1/2" XW	UF15A-XW-AG-405-1	2.27"	27"	8"
2" XW	UF20B-XW-AG-405-1	2.52"	27"	8"

BACK-TO-BACK O-RING EXPANSION JOINT

Back-to-back expansion joints with o-ring are used to accommodate changes in conduit length due to temperature fluctuations. Stop rings are built in the basic design. Spigot x spigot construction. For socket x spigot, change 430 with 431 or 435 with 436.



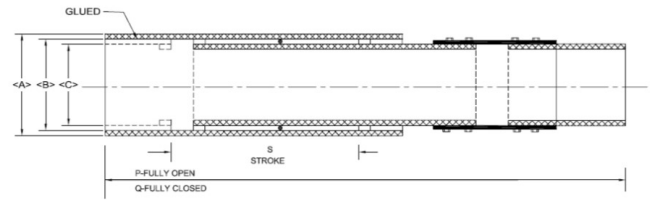
IPS Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" SW	UF75A-SW-AG-430-1	1.09"	56.5"	8"
1" SW	UF10A-SW-AG-430-1	1.37"	56.5"	8"
1 1/4" SW	UF12A-SW-AG-430-1	1.69"	56.5"	8"
1 1/2" SW	UF15A-SW-AG-430-1	1.94"	56.5"	8"
2" SW	UF20A-SW-AG-430-1	2.41"	56.5"	8"

XW Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-435-1	1.42"	56.5"	8"
1" XW	UF10A-XW-AG-435-1	1.68"	56.5"	8"
1-1/4" XW	UF12A-XW-AG-435-1	2.03"	56.5"	8"
1-1/2" XW	UF15A-XW-AG-435-1	2.27"	56.5"	8"
2" XW	UF20B-XW-AG-435-1	2.52"	56.5"	8"

FITTINGS – SMALL DIAMETER

O-RING EXPANSION/DEFLECTION JOINT

O-ring expansion/deflection joints are used to accommodate changes in conduit length due to temperature fluctuations and also accommodate for vertical movement/adjustment. Socket x spigot construction. For socket x socket, change 460 with 461 or 465 with 466. Hanger or support design must adequately separate stacked conduits.

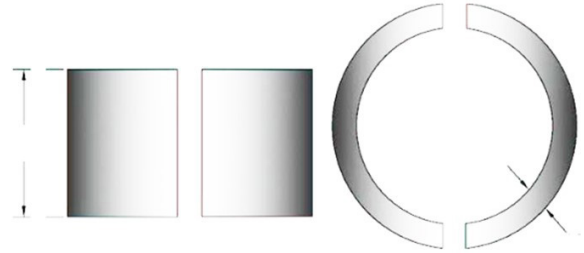


IPS Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" SW	UF75A-SW-AG-460-1	1.09"	31.5"	8"
1" SW	UF10A-SW-AG-460-1	1.37"	31.5"	8"
1 1/4" SW	UF12A-SW-AG-460-1	1.69"	31.5"	8"
1 1/2" SW	UF15A-SW-AG-460-1	1.94"	31.5"	8"
2" SW	UF20A-SW-AG-460-1	2.41"	31.5"	8"

XW Conduit				
Size	AG Part No.	ID	L	Stroke
3/4" XW	UF75A-XW-AG-465-1	1.42"	31.5"	8"
1" XW	UF10A-XW-AG-465-1	1.68"	31.5"	8"
1-1/4" XW	UF12A-XW-AG-465-1	2.03"	31.5"	8"
1-1/2" XW	UF15A-XW-AG-465-1	2.27"	31.5"	8"
2" XW	UF20B-XW-AG-465-1	2.52"	31.5"	8"

SPLIT STOP RINGS

Split stop rings create a fixed point in between two expansion joints. Two pairs of split stop rings are required for each expansion joint used. They are bonded with adhesive on each side of an anchor point hanger which is placed mid-point between two expansion joints.

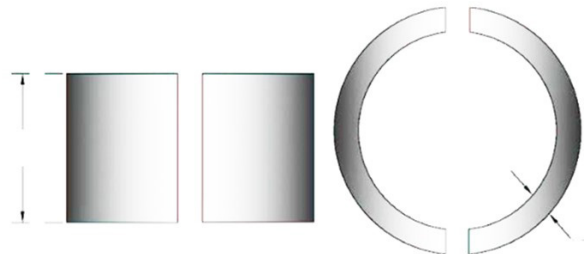


IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-440-1	.25"	3"
1" SW	UF10A-SW-AG-440-1	.25"	3"
1 1/4" SW	UF12A-SW-AG-440-1	.25"	3"
1 1/2" SW	UF15A-SW-AG-440-1	.25"	3"
2" SW	UF20A-SW-AG-440-1	.25"	3"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-440-1	.25"	3"
1" XW	UF10A-XW-AG-440-1	.25"	3"
1-1/4" XW	UF12A-XW-AG-440-1	.25"	3"
1-1/2" XW	UF15A-XW-AG-440-1	.25"	3"
2" XW	UF20B-XW-AG-440-1	.25"	3"

EXTRA THICK SPLIT STOP RINGS

Extra thick stop rings are used when the hanger support window is designed large enough for the bell ends of the conduit to pass through the window.



IPS Conduit			
Size	AG Part No.	ID	L
3/4" SW	UF75A-SW-AG-450-1	.375"	3"
1" SW	UF10A-SW-AG-450-1	.375"	3"
1 1/4" SW	UF12A-SW-AG-450-1	.375"	3"
1 1/2" SW	UF15A-SW-AG-450-1	.375"	3"
2" SW	UF20A-SW-AG-450-1	.375"	3"

XW Conduit			
Size	AG Part No.	ID	L
3/4" XW	UF75A-XW-AG-450-1	.375"	3"
1" XW	UF10A-XW-AG-450-1	.375"	3"
1-1/4" XW	UF12A-XW-AG-450-1	.375"	3"
1-1/2" XW	UF15A-XW-AG-450-1	.375"	3"
2" XW	UF20B-XW-AG-450-1	.375"	3"

ALL WEATHER ADH610 ADHESIVE APPLICATION GUIDE

The United Fiberglass All Weather ADH610 two part 1:1 epoxy based adhesive systems are developed, designed, formulated and tested to meet UL and NEMA joint requirements with United Fiberglass products. Our adhesive permanently bonds epoxy, polyester and vinyl-ester joints and fittings. Each kit contains a 20 ounce dual cartridge and one mixing tip (ADH620). The required dual cartridge applicator gun (ADH650) is ordered separately.



Follow all procedures completely, follow all safety directions found on the label or in the SDS sheet, follow all instructions provided thru employee training on the use of this adhesive, and heed all warning on the label, in the SDS sheet or provided in employee training.

Store the adhesive in temperatures between 40°F (4°C) and 80°F (27°C). Do not allow the product to freeze. Precondition adhesive overnight to temperatures between 70°F (21°C) and 80°F (27°C). Pre-condition materials for bonding to temperatures between 65°F (19°C) and 85°F (30°C).

The surface being bonded must be freshly sanded; dry and clean; and free of dust, moisture, oil, grease or any contaminant. For any field cuts or bonding surface that have not been factory sanded, the conduit spigot end should be sanded with 40-80 grit sandpaper to remove the resin glaze (glossy area) and to prepare for mechanical adhesion. Use 80 grit or equivalent sandpaper to abraded the exterior surface and remove the resin glaze. Wear a dust mask, safety glasses and skin protection when cutting or sanding.

Assemble dual cartridge applicator gun and cartridge. Unscrew the retaining nut from the cartridge, remove the small end caps, slide retainer nut over mixing tip and screw onto the cartridge and tighten. Save small end caps to re-seal cartridge if less than full cartridge is used. Cartridge can be used several times until empty; however, a new mixer will be needed each time. Each cartridge kit comes with one mixing tip. Additional mixing tips (ADH620) are available.

Begin squeezing the handle of the gun to start the adhesive moving and mixing within the mixing tip. Squeeze out enough adhesive until you achieve a gray uniform color. Some material will need to be discarded to ensure proper mixing. Discard until uniform gray color is achieved. Adhesive is now thoroughly mixed and ready for application.

Never attempt to re-use a static mixing tip. Reuse can result in material that is not properly mix and the final product may not fully cure.

Approximately ½ inch from the spigot end of the conduit, apply enough adhesive to cover a 1-½ to 2 inch wide area around the end. A spatula may help in spreading the mixed adhesive for consistent coverage. The thickness of the adhesive should be no less than 1/32 inch. Immediately insert the conduit end into the properly prepared fitting or “bell” using a ½ to ¾ turn of the conduit. To properly seat a conduit section, hold a wooden block (2x4) against the “bell” end and tap the wooden block to seat the “bell” and spigot ends. (Do not use a metal hammer directly on the “bell” end.) Spread or remove excess adhesive around the outside of the fitting or “bell”. Do allow some adhesive to remain as a visual inspection that adhesive has been used for the joint. Do not twist or spin the conduit back and forth. Ensure that no adhesive has formed on the interior wall of the conduit.

An alternate method of mixing the adhesive is to direct the material into a mixing bowl or surface without the use of a mixing tip. Dispense just enough adhesive to complete the desired number of joints. Mix adhesive thoroughly with a spatula until you achieve a gray uniform color. (This method may use more adhesive due to waste.)

Approximately ½ inch from the spigot end of the conduit, apply enough adhesive to cover a 1-½ to 2 inch wide area around the end. A spatula may help in spreading the mixed adhesive for consistent coverage. The thickness of the adhesive should be no less than 1/32 inch. Immediately insert the conduit end into the properly prepared fitting or “bell” using a ½ to ¾ turn of the conduit. To properly seat a conduit section, hold a wooden block (2x4) against the “bell” end and tap the wooden block to seat the “bell” and spigot ends. (Do not use a metal hammer directly on the “bell” end.) Spread or remove excess adhesive around the outside of the fitting or “bell”. Do not twist or spin the conduit back and forth. Ensure that no adhesive has formed on the interior wall of the conduit.

The pot life of the ADH610 All Weather Adhesive is between 2 and 4 minutes. The working time is 10 minutes. Cure is in 24 hours. This product should be used when ambient temperature during cure is above -18°F (-27°C).

Cold temperatures will slow down reaction time and increase viscosity.

Do not improperly discard (such as directly in a landfill) any un-cured (un-mixed) adhesive. Cured material is environmentally safe.

Part No.	Description
ADH 610	20 oz All Weather Adhesive
ADH 620	Mixing Tips
ADH 650	Dual Cartridge Applicator Gun
ADH 660	18V Dual Cartridge Applicator Gun

Estimated Joints Per Cartridge using Mixing Tips	
¾"	100 Joints
1"	85 Joints
1-¼"	75 Joints
1-½"	60 Joints
2"	50 Joints
2-½"	40 Joints
3"	35 Joints
3-½"	30 Joints
4"	25 Joints
5"	20 Joints
6"	15 Joints
8"	10 Joints

Estimated Joints Per Cartridge without Mixing Tips	
¾"	50 Joints
1"	43 Joints
1-¼"	38 Joints
1-½"	30 Joints
2"	24 Joints
2-½"	22 Joints
3"	20 Joints
3-½"	18 Joints
4"	15 Joints
5"	12 Joints
6"	8 Joints
8"	6 Joints

Please add 10% to your adhesive calculation.

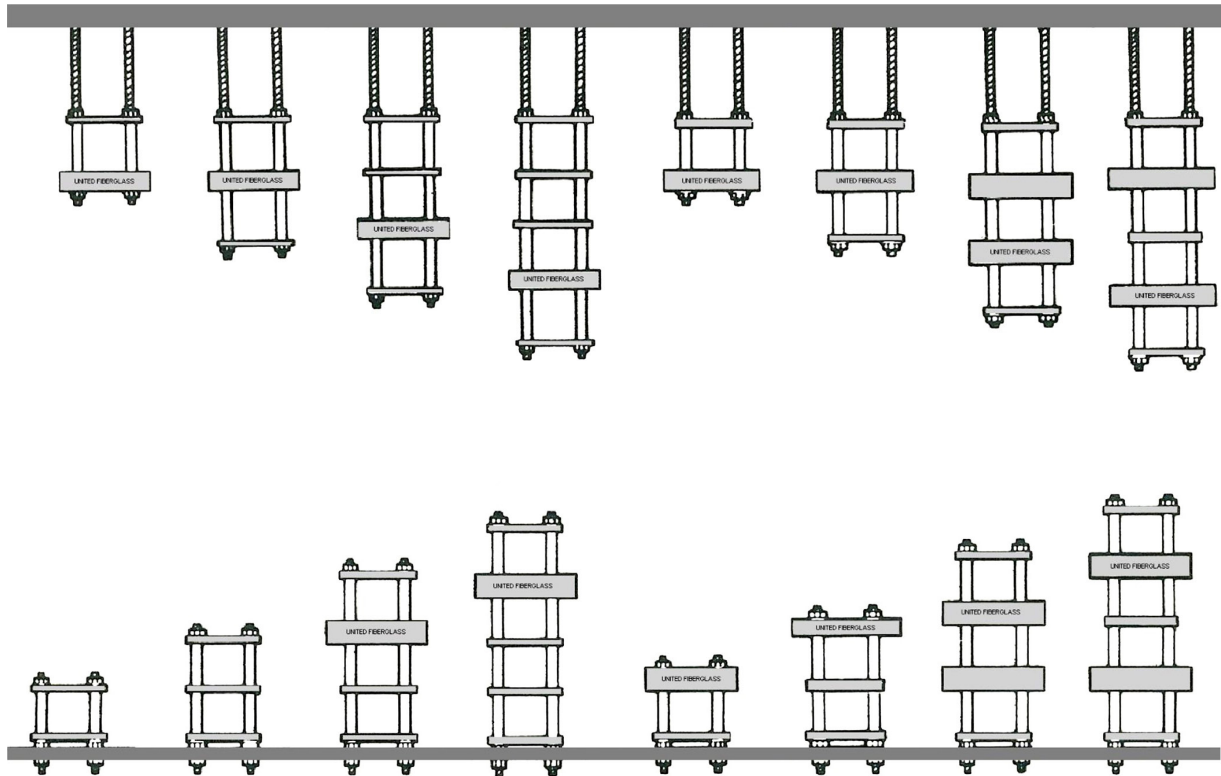
CUSTOM FIBERGLASS CONDUIT PIPE HANGERS & SUPPORT SYSTEMS

The selection and design of hangers and supports is an important part of any conduit, drainage or pipe system. To ensure a long lasting and functional system, it is essential that design is considered:

United Fiberglass provides design and material support for conduit, drainage and pipe systems. We have established proven methods of manufacturing and designing support and hanging systems and can work closely with utilities, DOT's, engineers, contractors, owners, distributors and agents to meet the project requirements.

For anyone who occasionally or routinely becomes involved in hanger and support design, United Fiberglass offers assistance with product selection and design.

Sample Intermediate and Anchor Hanger Deck Mount



Sample Intermediate and Anchor Hanger Base Mount Hangers

United Fiberglass hangers and supports arrive at the job-site assembled with accessories including optional chemical or mechanical inserts. Contact CCG for specific hanger and support configurations.

Hangers and Supports are available with the following metal components:

- Hot Dipped Galvanized
- 304SS Stainless Steel
- 316SS Stainless Steel
- Zinc Plated

GRID TYPE HANGER & SUPPORT ESTIMATING GUIDE

Please provide the following information:

- 1a. Number of ducts high _____
- 1b. Number of ducts wide _____
- 2a. 1/2"x2" bottom flat bar or 2" sq. tube _____
- 2b. 1/2"x2" middle flat bar or 2" sq. tube _____
- 3a. Conduit OD (and type) _____
- 3b. (Height of grid opening B dim) _____
- 3c. (Width of grid opening) _____
- 4a. Height of support rod _____
- 4b. Or distance above top bar (A) _____
5. Rod size _____
6. Hardware material (316SS, 304SS, HDG, Zinc) _____
- 7a. Length of bridge span _____
- 7b. Or quantity of hangers _____
8. Type of insert (loop, chemical, expansion) _____
9. Domestic requirements _____
10. Bracing requirements for anchor point _____
11. Special requirements _____

For:

Company _____

Contact _____

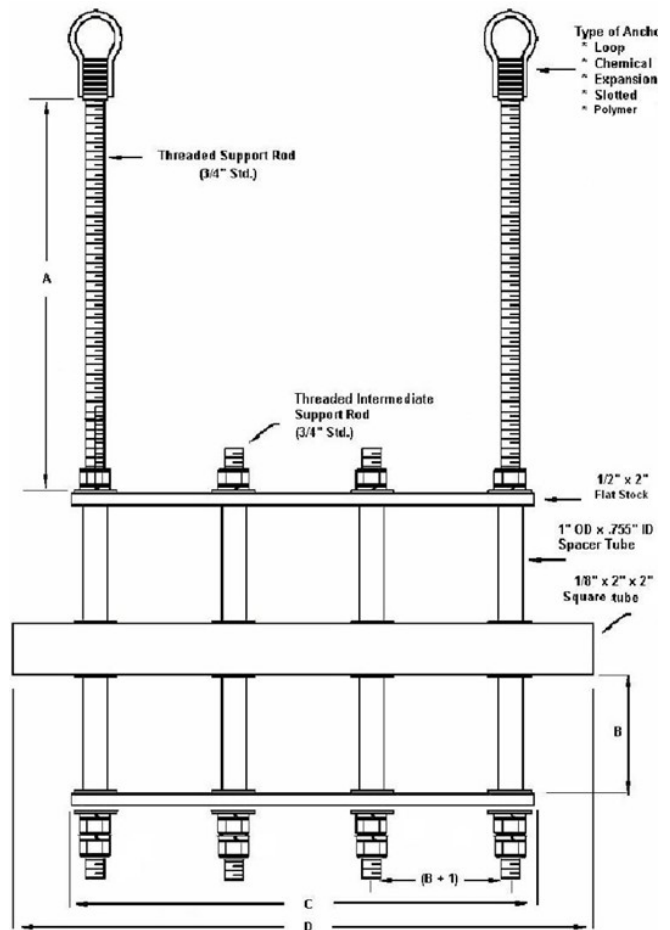
Address _____

City _____ ST _____ Zip _____

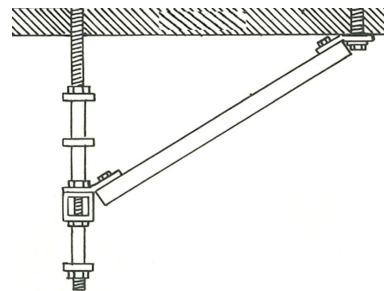
Phone _____

Email _____

Comments _____



WE ALSO OFFER MANY STYLES OF CONDUIT AND PIPE HANGERS AND SUPPORTS.



Anchor Hanger
(side view)

Please send this information to sales@unitedfiberglass.com or call 937-325-7305

DUCT SPACERS

Plastic duct spacers are used to hold conduit in position in below ground duct banks. Intermediate spacer snaps into base spacer. Cap-Loks may be used to hold the top conduit in position. To prevent top tier from floating, use an intermediate spacer. Review NEMA Publication TCB2 for more information.

Universal plugs are used to temporarily plug the end of conduit, bell ends, female adapters or male adapters.

Part Number	Description	Weight	Package	Class
P150-1	2" x 1-1/2" Intermediate Spacer	34	350	92.5
P151-1	2" x 1-1/2" Base Spacer	31	250	92.5
P152-1	2" x 2" Intermediate Spacer	31	300	100
P153-1	2" x 2" Base Spacer	33	225	100
P154-1	2" x 3" Intermediate Spacer	27	200	125
P155-1	2" x 3" Base Spacer	35	225	125
P156-1	3" x 1-1/2" Intermediate Spacer	32	225	100
P157-1	3" x 1-1/2" Base Spacer	31	175	100
P158-1	3" x 2" Intermediate Spacer	32	200	100
P159-1	3" x 2" Base Spacer	28	155	125
P160-1	3" x 3" Intermediate Spacer	23	125	125
P161-1	3" x 3" Base Spacer	32	150	100
P120-1	4" x 1" Intermediate Spacer	37	200	92.5
P121-1	4" x 1" Base Spacer	35	175	100
P185-1	4" x 1-1/2" Intermediate Spacer	30	150	100
P186-1	4" x 1-1/2" Base Spacer	39	140	92.5
P124-1	4" x 2" Intermediate Spacer	28	125	125
P125-1	4" x 2" Base Spacer	42	140	92.5
P189-1	4" x 3" Intermediate Spacer	26	90	125
P190-1	4" x 3" Base Spacer	40	120	92.5
P128-1	5" x 1-1/2" Intermediate Spacer	28	100	125
P129-1	5" x 1-1/2" Base Spacer	42	120	100
P130-1	5" x 2" Intermediate Spacer	30	100	100
P131-1	5" x 2" Base Spacer	42	100	100
P191-1	5" x 3" Intermediate Spacer	23	80	150
P192-1	5" x 3" Base Spacer	38	100	100

DUCT SPACERS

Plastic duct spacers are used to hold conduit in position in below ground duct banks. Intermediate spacer snaps into base spacer. Cap-Loks may be used to hold the top conduit in position. To prevent top tier from floating, use an intermediate spacer. Review NEMA Publication TCB2 for more information.

Universal plugs are used to temporarily plug the end of conduit, bell ends, female adapters or male adapters.

Part Number	Description	Weight	Package	Class
P128-1	5" x 1-1/2" Intermediate Spacer	28	100	125
P129-1	5" x 1-1/2" Base Spacer	42	120	100
P130-1	5" x 2" Intermediate Spacer	30	100	100
P131-1	5" x 2" Base Spacer	42	100	100
P191-1	5" x 3" Intermediate Spacer	23	80	150
P192-1	5" x 3" Base Spacer	38	100	100
P132-1	6" x 1-1/2" Intermediate Spacer	27	100	125
P133-1	6" x 1-1/2" Base Spacer	32	100	125
P134-1	6" x 2" Intermediate Spacer	31	90	100
P135-1	6" x 2" Base Spacer	42	100	100
P162-1	6" x 3" Intermediate Spacer	26	70	150
P163-1	6" x 3" Base Spacer	38	95	100
P196-1	8" x 1-1/2" Intermediate Spacer	28	60	125
P197-1	8" x 1-1/2" Base Spacer	27	50	125
P198-1	8" x 2" Intermediate Spacer	31	60	125
P199-1	8" x 2" Base Spacer	29	50	125
P94-1	2" Spacer Cap-Lok	8	200	100
P95-1	3" Spacer Cap-Lok	9	200	100
P96-1	4" Spacer Cap-Lok	8	150	100
P97-1	5" Spacer Cap-Lok	7	100	125
P98-1	6" Spacer Cap-Lok	7	100	126
P139-1	2" Universal Plug	11	176	92.5
P143-1	3" Universal Plug	34	200	100
P140-1	4" Universal Plug	39	180	92.5
P141-1	5" Universal Plug	26	100	125
P142-1	6" Universal Plug	32	90	100

FIBERGLASS ENCLOSURES

When you need durability, ease of installation and custom options, United Fiberglass Composite Enclosures are your answer. Our impact resistant, maintenance free fiberglass enclosures are designed to protect in the harsh conditions, such as salt water environments, wastewater and water treatment plants, chemical and refinery plants. Fiberglass enclosures have the following advantages:

- Lightweight and easy to handle
- Non-conductive
- Easily modified
- Cost savings versus steel enclosures
- UV resistant
- Flame retardant
- Standard enclosures are UL listed and CSA certified



SPECIFYING UNITED FIBERGLASS CONDUIT SYSTEMS

1. GENERAL

- 1.1 The fiberglass conduit shall be filament wound Reinforced Thermosetting Resin Conduit (RTRC) as manufactured by United Fiberglass to comply with the specifications outlined in the latest revision of the appropriate UL 2420, UL 2515, UL 2515A, CSA C22.2 No. 2420, CSA C22.2 No. 2515, or NEMA TC-14 based on use in accordance with NFPA 70, National Electric Code (NEC) or CSA C22.1, Canadian Electric Code (CEC), Part 1. The fiberglass conduit shall have a nominal single winding angle of 54.75 degrees. The conduit shall be free from defects including delamination, foreign inclusions, etc. It shall be nominally uniform (as commercially practical) in color, density and physical properties. It shall be straight and the ends shall be cut square to the inside diameter. The resin system shall be epoxy anhydride-cured with no fillers. Glass shall be E-type.

2. JOINING METHODS

- 2.1 Interference Joint - The conduit shall be supplied with an integrally wound tapered bell and machine tapered spigot which shall provide a concrete tight fit with a minimum pullout strength of 500 lbf when tested in accordance with ASTM D2105.
- 2.2 Interference/Adhesive Joint - The conduit shall be supplied with an integrally wound tapered bell and machine tapered spigot to be used with an adhesive - which shall be supplied by the manufacturer of the conduit. The strength of the joint shall meet or exceed the conduit tensile strength when tested in accordance with ASTM D 2105. The joint shall have a minimum pullout force of 1500 lbf per section 5.8 of UL 2515 and NEMA TC-14. The joint shall be concrete tight and water-tight when tested in accordance with ASTM D2105.
- 2.3 Interference/Gasketed Joint - The conduit shall be supplied with an EPDM O-ring gasket in the tapered bell end and a machine tapered spigot to provide a non-adhesive, water-tight and concrete tight mechanical joint capable of withstanding a minimum pullout force of 500 lbf when tested in accordance with ASTM D2105.

3. FITTINGS

- 3.1 A complete line of fittings, adaptors and elbows shall be available and shall be manufactured from the same materials and process as the conduit.

4. SIZES

- 4.1 Conduit and fittings shall be manufactured to IPS and ID trade sizes and shall meet the dimensional requirements as outlined in the catalog sheets.

5. ULTRA VIOLET PROTECTION

- 5.1 Above Ground rated conduit and fittings shall be manufactured with carbon black as a UV inhibitor to meet the requirements of the latest revision of the appropriate UL, CSA, or NEMA specification. Additional UV solution will be added to the resin matrix which meets the requirements of UL, CSA, or NEMA for prolonged outdoor storage and use.

6. COLOR

- 6.1 Conduit and fittings shall be pigmented black. Alternate colors are available as an option. Non-pigmented aboveground rated conduit shall not be allowed.

7. JOINING METHODS

- 7.1 A flame with a temperature of 816 +/- 50°C (1500 +/- 90°F) shall be applied for 15 seconds and then removed for 15 seconds until five such applications have been made. The flame shall not be reapplied while the material is still burning. If the material burns for more than 15 seconds but less than 30 seconds, the flame shall be immediately reapplied upon cessation of the flame. The material shall not support combustion for more than 30 seconds after any of the first four flame applications or 60 seconds after the fifth application of the test flame.

8. FITTINGS

- 8.1 The low-halogen conduit shall not exceed 0.2% by weight of total halogen content, using the calculated method described in UL 2515 and NEMA TC-14.

9. SIZES

- 9.1 When supporting or hanging conduit on a wall or structure, the manufacturer supplying the conduit shall also supply the hangers and supports.

10. ULTRA VIOLET PROTECTION

- 10.1 Fiberglass conduit, fittings, supports and accessories shall be manufactured and/or supplied by United Fiberglass

ENGINEERING DATA

INTERIOR FINISH

< 125 micro inches
Clean, smooth and free of abrasive surfaces

EXTERIOR FINISH

< 2000 micro inches
Shall contain UV 9 Absorber Solution and pigmented carbon black or gray

COEFFICIENT OF FRICTION

0.38 (PVC jacketed cable)
0.23 (XLP jacketed cable)
0.25 (LDP jacketed cable)

ELECTRICAL

Dielectric Strength	> 500 volts/mil per ASTM D149
Dissipation Factor	0.5% per ASTM D150
Volume Resistivity	3.8×10^{14} ohm per ASTM D150
Surface Resistivity	1.1×10^{14} ohms per ASTM D257
Dielectric Constant	3.5 (@ 10^3 cps) per ASTM D150

MECHANICAL

Tensile Strength (axial)	>11,000 psi per ASTM D638 or D2105
Compressive Strength (axial)	>12,000 psi per ASTM D695
Ultimate Elongation	2% psi per ASTM D638 or D2105
Modulus of Elasticity (4")	1.4×10^6 psi per ASTM D638 or D2105
Flexural Modulus (max)	1.4×10^6 psi per ASTM D790

PHYSICAL

Specific Gravity	1.7 – 2.0 per ASTM D792
Glass Content	68% +/- 2% per API SPEC 15LR
Water Absorption	< 1% per ASTM D570
Barcol Hardness	55 +/- 1 per ASTM D2583
Winding	Single circuits close to 54.75 degrees

THERMAL

Heat Deflection Temp.	312° F per ASTM D648
Thermal Resistivity	0.5°F hr.ft ² /BTU in.
Thermal Conductivity	2 BTU in./hr.ft ² °F per ASTM D5930
Continuous Operating Temp.	-40°F to 230°F (-40°C to 110°C)
Maximum Operating Temp.	-60°F to 260°F (-51°C to 130°C)
Coefficient of Thermal Expansion	1.2×10^{-5} in/in/°F per ASTM D696

COMPLIANCE

Aboveground UL 2515 or UL 2515A, CSA C22.2 No. 2515, NEMA TC-14
Belowground UL 2420, CSA C22.2 No. 2420, NEMA TC-14

FLAMMABILITY

Aboveground conforms to UL 2515 or UL 2515-A
Belowground HB rating in UL 94

Impact Resistance Table

Minimum impact resistance values (shown in ft-lbs) as required by NEMA TC-14, UL 2420 and UL 2515 as tested at 74°F and 32°F in accordance with ASTM D2444.

Size	DB	SW	HW
2"	35	35	-
3"	60	60	-
4"	60	60	80
5"	100	100	180
6"	100	100	200

Compression Resistance Table

The internal diameter of the conduit shall not decrease by more than 25% during application of the force specified in the table below when tested in accordance with NEMA TC-14 and UL 2420 and UL 2515, clauses 5.2.2 to 5.2.4. The conduit shall show no evidence of cracking or buckling after removal from the compression machine.

Size	Force (N)	Force (lbf)
2" SW	2670	600
3" SW	1555	350
4" SW	800	180
4" HW	2000	450
5" SW	1335	300
6" SW	1160	260

Pipe Stiffness

Minimum conduit stiffness at 5% deflection for all sizes of conduit shall not be less than the values shown below when tested at 74°F and 32°F in accordance with ASTM D2412

Size	SW	HW	XW
2"	320	-	1300
3"	140	-	600
4"	50	130	250
5"	75	90	180
6"	55	65	150

EXPANSION JOINT LAYOUT FOR FIBERGLASS CONDUIT

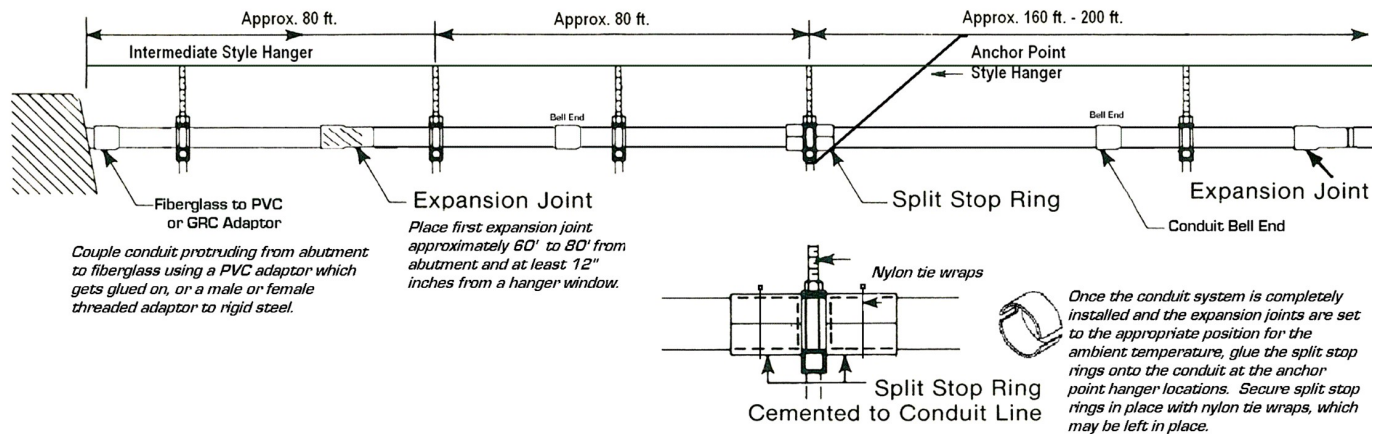
All conduit materials expand and contract longitudinally with changes in temperature. Temperature changes affect reinforced thermosetting resin conduit (RTRC) differently than materials such as PVC, steel and aluminum. The co-efficient of thermal expansion (1.5×10^{-5} in/in/°F from Table 355.44 of NEC) for fiberglass conduit also known as RTRC is only slightly greater than steel and aluminum but nearly three times less than PVC.

Thermal expansion and contraction has a significant effect on long straight runs of conduit in above ground applications. Expansion joints are used to accommodate changes in length and accommodate system damaging stresses.

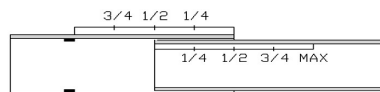
Expansion Fittings Required

Section 355.44 of the National Electrical Code® (NEC) requires that expansion joints be installed for RTRC conduit to compensate for thermal expansion and contraction where the length change is expected to be .6 mm (1/4 in.) or greater in a straight run between securely mounted items such as boxes, cabinets, elbows or other conduit terminations. For above ground attachment, the following rule of thumb applies:

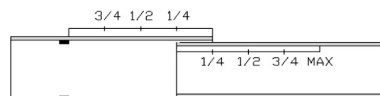
- Intermediate hangers or straps shall allow the conduit to move longitudinally. Anchor point hangers or fixed point straps shall hold the conduit from longitudinal movement while bracing against resulting forces.
- Where the conduit run is 50 ft. or less and the estimated longitudinal movement is less than 1/4", no expansion joint is required.
- Where the conduit run is between 50 ft. and 200 ft., one expansion joint is installed (any location in the run is acceptable). For these installations, only intermediate hangers or straps are required since the conduit end points or bridge abutment connection will act as a fixed point and allow for expansion to occur at the expansion joint. For attachment at enclosures, split stop rings may be required to keep resulting forces from transferring to the enclosure.
- When the conduit run is greater than 200 ft., install one expansion joint every 200 ft. maximum or as designed for the expansion joint. Mid-way between expansion joints an anchor point hanger is installed. This hanger may require bracing to the bridge deck. Split stop rings are glued to the conduit on each side of the anchor point hanger or fixed point straps to create a fixed point. This allows the expansion joints on each side of the anchor point hanger to accommodate expansion and contraction resulting forces. For attachment at enclosures, split stop rings may be required to keep resulting forces from transferring to the enclosure.



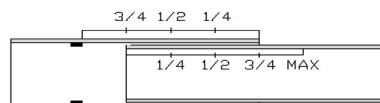
For medium temperature (65°-75° F)
set piston 1/2 way in barrel



For cold temperature (20°-30° F)
set piston 1/4 way in barrel



For hot temperature (95°-105° F)
set piston 3/4 way in barrel



SUPPORT SPAN CALCULATIONS & CONDUIT DEFLECTION TABLES

The excellent rigidity and flexural strength of United Fiberglass' fiberglass conduit allows the conduit system designer to increase the support spans, reducing by half or more the number of hanger supports required, thereby significantly reducing material and labor costs.

United Fiberglass has developed span deflection charts on the following pages to guide you through the design process. To determine optimum span, first select the chart that corresponds with the conduit size desired. Next select the weight, from the vertical axis, of the cable being installed.

Now follow the line corresponding to the 5/8" deflection curve until it intersects with the horizontal support span line. 5/8" mid-span deflection is the most commonly used.

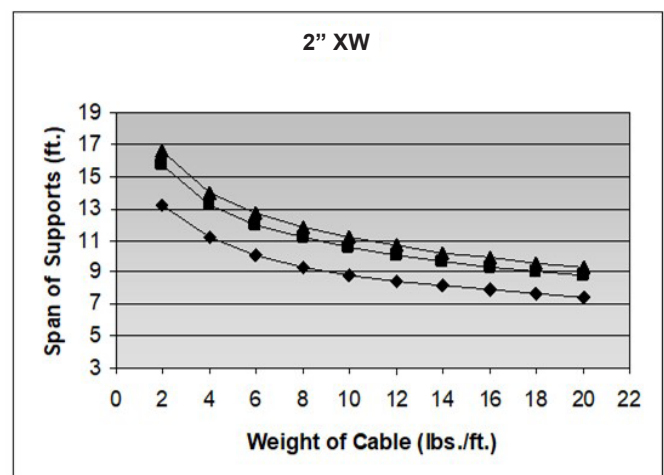
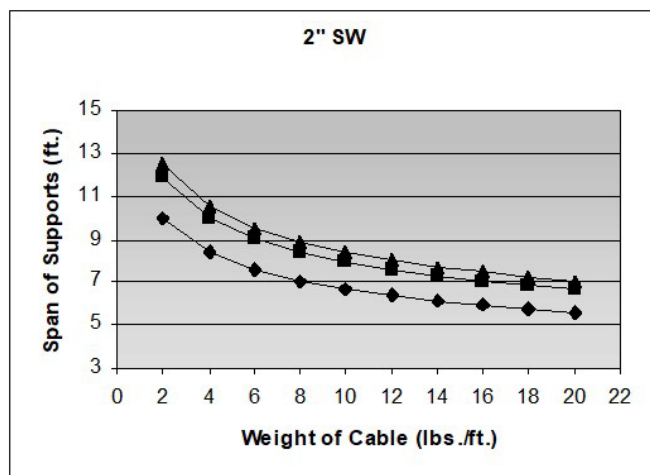
Should the conduit be subject to additional stresses such as ice loading and high winds, the spans should be shortened. United Fiberglass has built several safety factors into these calculations to account for long term creep and conduit stress.

Should the installation require spanning further than what is calculated in these charts, please contact United Fiberglass for assistance.

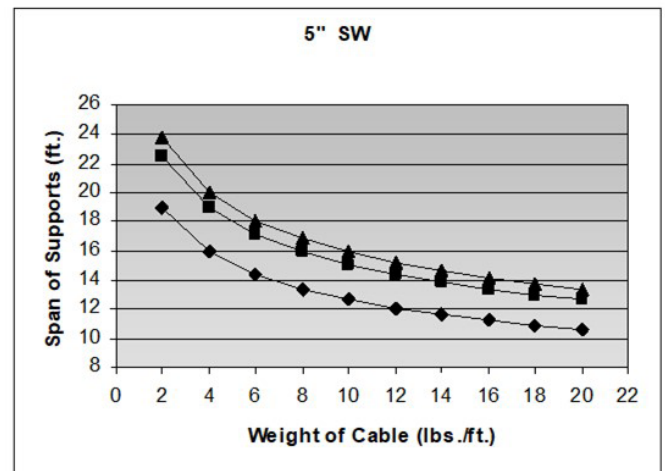
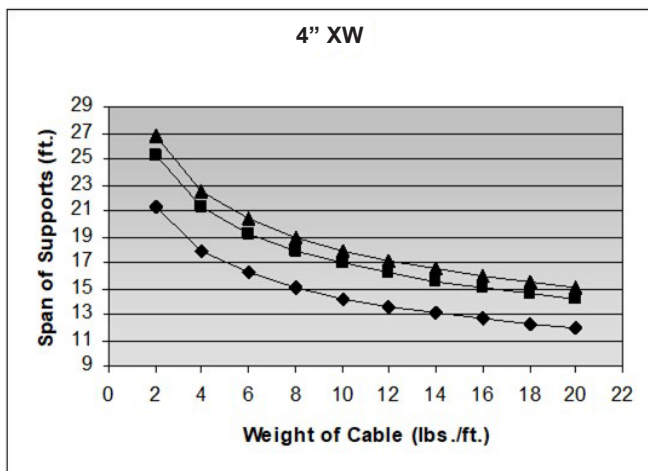
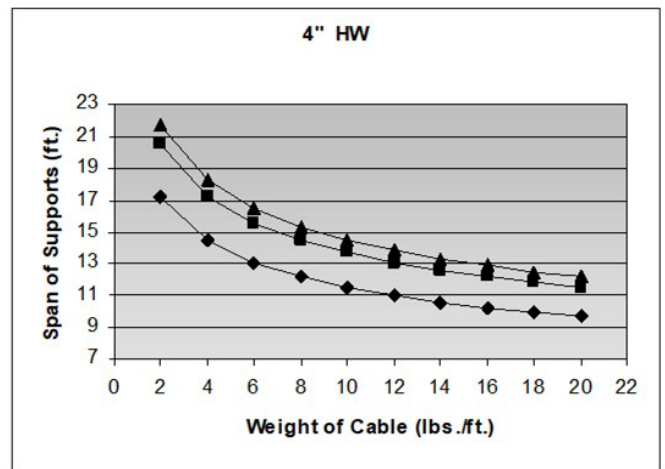
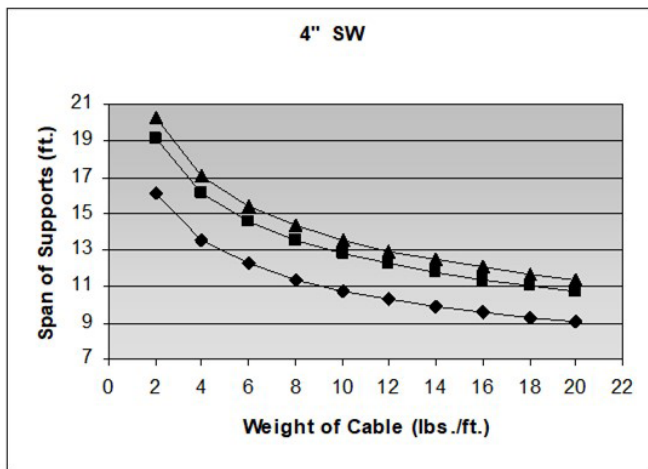
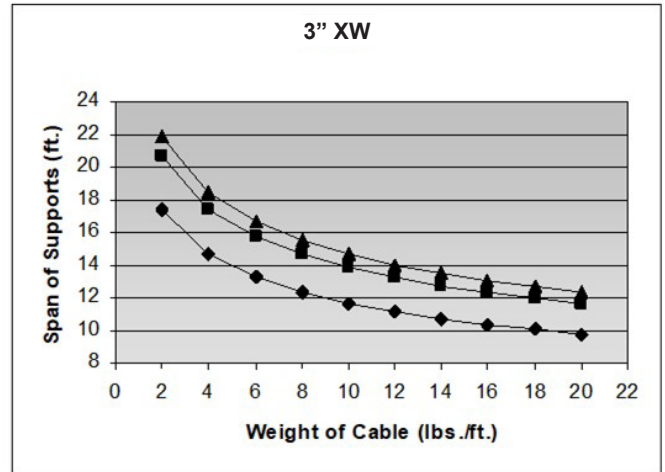
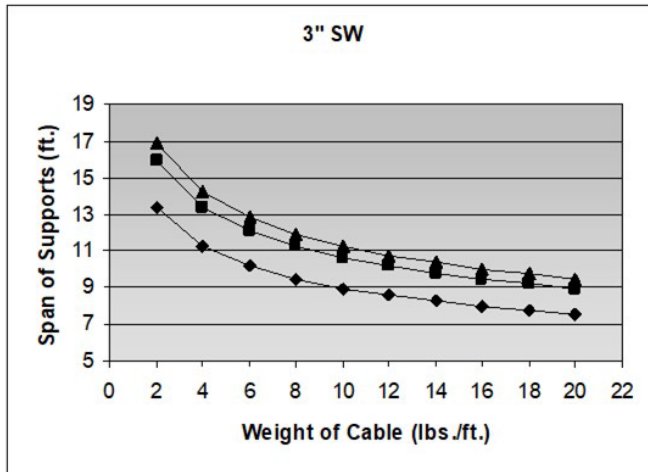
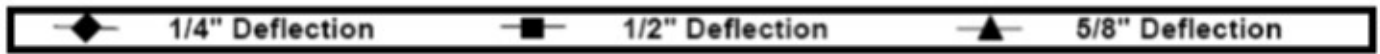
The derived NEMA formula for distance between hangers:

L = Distance between hangers (ft.)
 D = Mid-span Deflection (in.)
 E = Modulus of Elasticity (psi),
 (1,400,000 for fiberglass conduit)
 OD = Outside Diameter of Conduit
 ID = Inside Diameter of Conduit
 T = Total weight of cable and conduit (lbs./ft.)

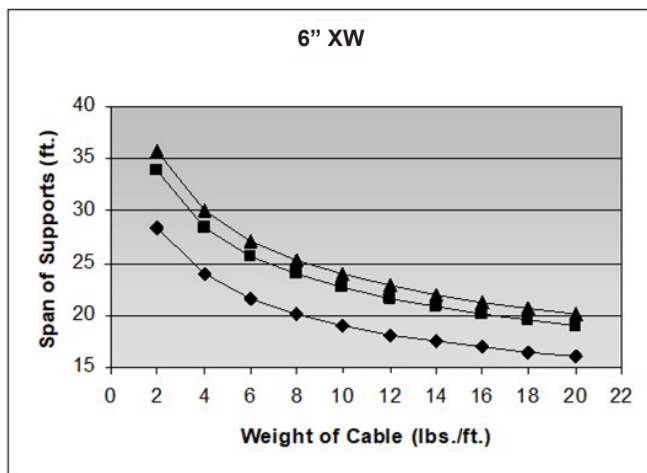
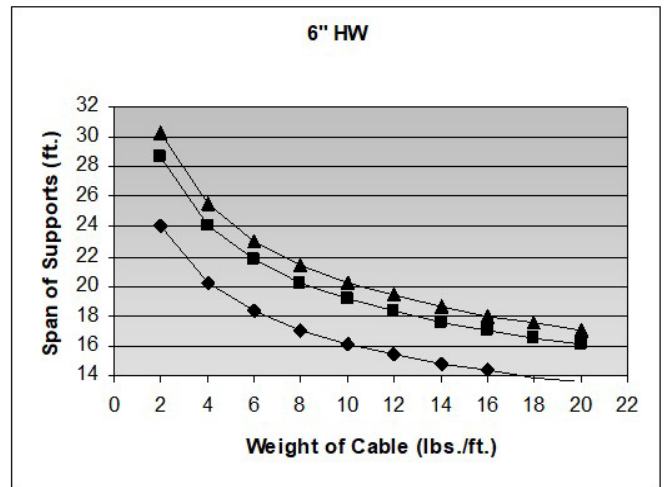
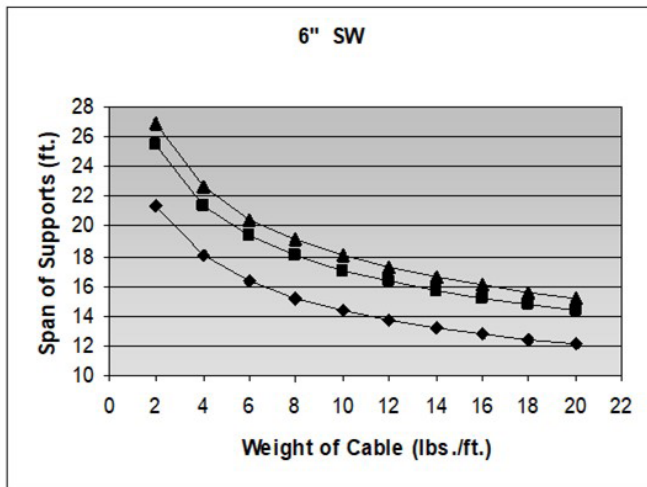
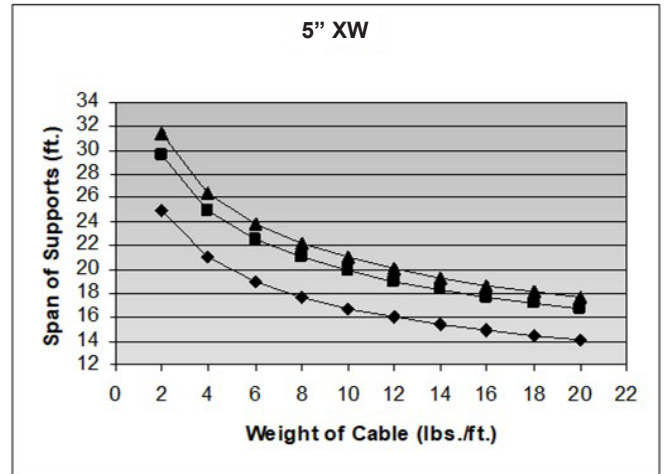
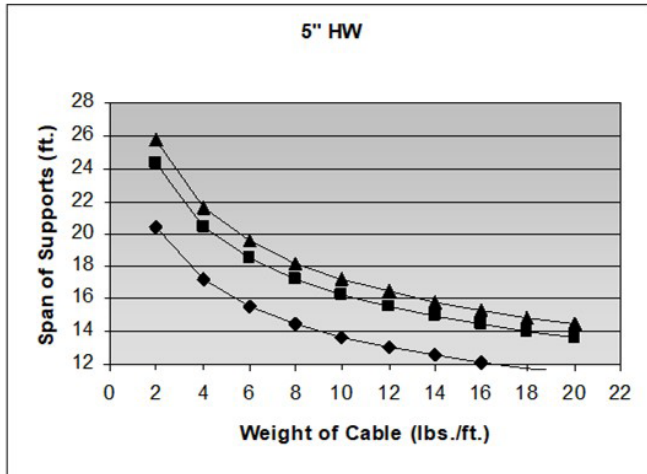
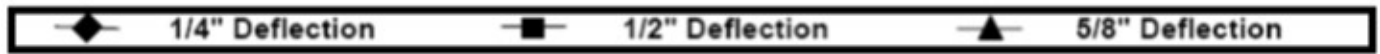
$$L = \sqrt[4]{\frac{384DE\left(\frac{\pi(OD^4 - ID^4)}{64}\right)}{T/12}} \div 12$$



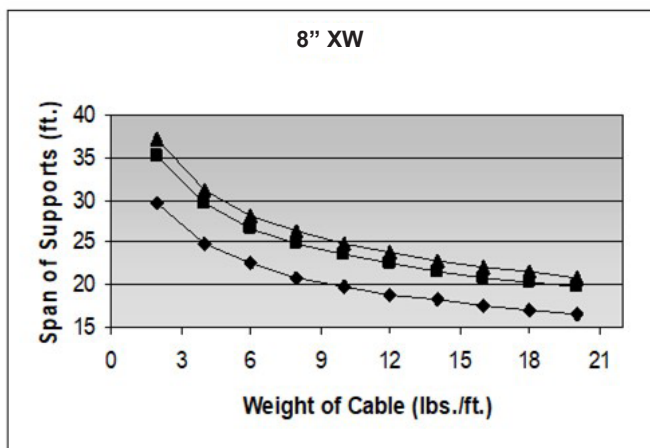
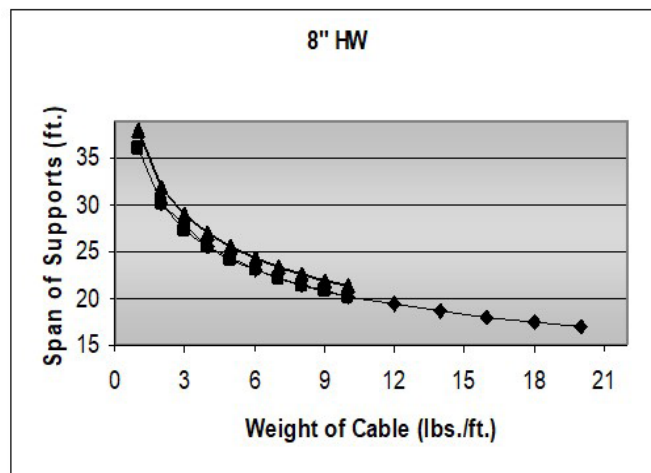
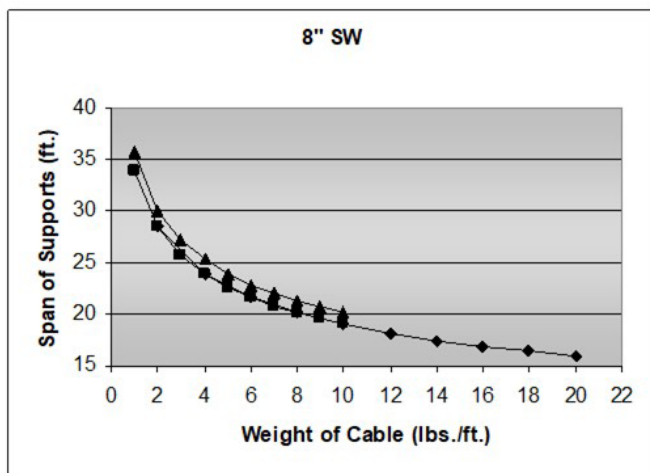
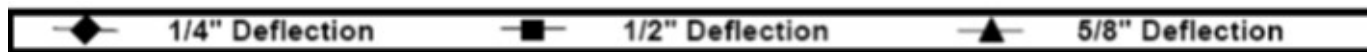
SUPPORT SPAN CALCULATIONS & CONDUIT DEFLECTION TABLES



SUPPORT SPAN CALCULATIONS & CONDUIT DEFLECTION TABLES



SUPPORT SPAN CALCULATIONS & CONDUIT DEFLECTION TABLES



CONDUIT PACKAGING

Packaging					
Cable Type	United Fiberglass	Pieces/Pallet	Pallets/Truck	Pieces/Truck	Quantity/Truck
2" ID	SW	127	12	1,524	30,480'
2" ID	XW	48	18	864	17,280'
2" IPS	SW	127	12	1,524	30,480'
3" ID	SW	127	8	1,016	20,320'
3" ID	XW	48	18	864	17,280'
3" IPS	SW	127	8	1,016	20,320'
4" ID	SW/HW	115	8	920	18,400'
4" ID	XW	60	8	480	9,600'
4" IPS	SW/HW	94	8	752	15,040'
5" ID	SW/HW	76	8	608	12,160'
5" ID	XW	46	8	368	7,360'
5" IPS	SW/HW	59	8	472	9,440'
6" ID	SW/HW	46	8	368	7,360'
6" ID	XW	39	8	312	6,240'
6" IPS	SW/HW	39	8	312	6,240'
8" IPS	SW/HW	23	8	184	3,680'
8" IPS	XW	23	8	184	3,680'

CREATIVE COMPOSITES GROUP IS THE LARGEST VERTICALLY INTEGRATED MANUFACTURER OF STRUCTURAL FRP COMPOSITES IN THE U.S.A.

Our United Fiberglass division has been supplying major infrastructure projects with conduit systems since 1983

We have a history of technical innovation that has led to the development of mission critical cable protection applications — nobody does it better than CCG. Our fiberglass conduit systems are made to withstand the rigors of challenging ambient environments to ensure that your cable runs, and the success of your next project, remain uninterrupted. Because CCG has the flexibility to create components in sizes, configurations and colors to meet your exact needs, you'll be hard-pressed to find a more convenient and cost-efficient complete package for your fiberglass conduit or duct needs. Our conduit provides a resilient, long-lasting FRP system for a wide-range of applications because it is engineered to perform and has best-in-class mechanical properties due to our unique combination of glass reinforcement and polymer resin system.

CCG is Your Custom Engineered FRP Provider

We're much more than a material supplier – we provide proven engineering processes, end-to-end collaboration, service and support resources. Creative Composites Group works alongside your team to design and engineer FRP solutions that meet the most demanding requirements and environmental considerations. CCG can help you create structural FRP products of any size or shape — for projects of any ambition or vision. We are the single source for the broadest range of engineered FRP solutions to build your ideal projects.

Your Single Source for Innovative Fiber Reinforced Polymer Composites

CreativeCompositesGroup.com



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