



superseal

a **nudyne** company

Heat shrinkable caps & tubing

Superior environmental protection for wire and cables

Superior quality. Extreme protection.

Super Seal is a leader in heat shrinkable seals that safeguard wires, cables and ropes against damage, moisture, and environmental hazards.



Four easy steps.

The heat shrink process allows you to quickly and effectively apply Super Seal's protective caps, tubing and sleeves to your wires and cables.

1 CLEAN SURFACE: Begin by thoroughly cleaning the wire or cable to ensure a clean surface for optimal adhesion.



2 SELECT THE CORRECT SIZE: Utilize our fitting guide to select the precise cap, tubing or wrap sleeve size for your specific application. Refer to the technical specifications and accompanying dimensional diagrams provided.



3 APPLY HEAT: Use a heat gun or propane torch to apply heat evenly along the seal. Start at the closed end and gradually move towards the open end.



4 SHRINK TO FIT: As you apply heat, the product will shrink, creating a seal that conforms to the wire or cable. Ensure even heat distribution for uniform shrinking. As the product shrinks, sealant will flow from the open end(s). This indicates a successful application and ensures a secure fit. Allow product to cool.



End Seal Caps

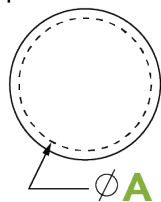


Super Seal End Seal Caps provide wire and cable with superior environmental protection against damage and moisture. The patented material formulation provides high quality sealing protection for most cable jacket material including XLPE, PVC, PILC and Rubber.

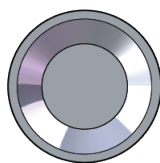
End Seal Caps are utilized across many industries including wire and cable manufacturers, utilities, industrial users and OEM's. They are available in a full range of sizes from 1/4" through 19-1/2" diameters; available with and without valves for external pressurization.

TECHNICAL SPECIFICATIONS		
Properties	Value	Standard
Physical		
Tensile Strength	12 MPa (1740 psi)	ASTM D638
Ultimate Elongation (Min)	350%	ASTM D638
Density	1.05 +/- 0.02 gm/cm ³	ASTM D792
Hardness	45 +/- 10 Shore D	ASTM D2240
Water Absorption (Max)	0.2%	ASTM D570
Specific Gravity (Max)	1.05	ASTM D792
Thermal		
Accelerated Aging (500 Hours)	120°C (248°F)	ASTM D2671
Tensile Strength (Min)	11 MPa (1595 psi)	ASTM D638
Ultimate Elongation (Min)	300%	ASTM D638
Heat Distortion @ 150°C (302°F)	2%	ASTM D1047
Low Temperature Flexibility -40°C (-40°F) for 4 Hrs.	No Cracking	ASTM D2671
Heat Shock 250°C (482°F) for 30 Min.	No Cracking or Flowing	ESI 09-11
Shrink Temperature	125°C (257°F)	IEC 216
Continuous Temperature Limit	-40 to 100°C (-40 to 212°F)	IEC 216
Electrical		
Dielectric Strength (Min)	12 kV/mm (304.8 kV/in)	ASTM D149
Volume Resistivity (Min)	1 x 10 ¹⁴ Ohm-cm	ASTM D257
Dielectric Constant @ 60 Hz (Max)	5 pf	ASTM D150
Dissipation Factor @ 60 Hz (Max)	0.003	ASTM D150
Chemical		
Ozone Resistance 48 hrs @ 0.03	No Cracking	

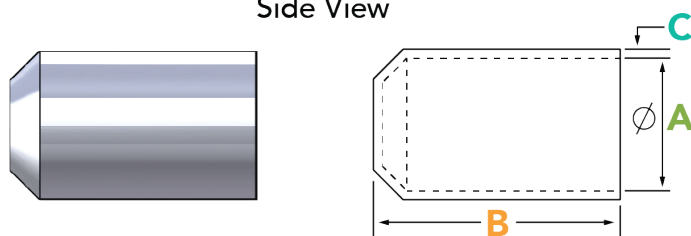
Open End View



Closed End View



Side View



SUPER SEAL END CAP SIZE SELECTION

Super Seal Part #	Nominal Diameter (inches)	Cable Diameter Range		Inside Diameter "A"				Length "B" Overall Cap Length		Wall Thickness "C" Recovered (+/- 20%)	
				Supplied Diameter		Recovered Diameter					
		(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)
G-A	0.25"	2-4	0.08-0.16	6	0.23	2	0.078	25	0.98	2	0.078
*G-B	0.375"	4-8	0.16-0.31	12	0.47	4	0.157	40	1.57	2.3	0.090
G-B L	0.375"	4-8	0.16-0.39	12	0.47	4	0.157	58	2.28	2.3	0.090
G-B A	0.5"	4-11	0.16-0.43	14	0.55	4	0.157	38	1.49	2.3	0.090
G-B AL	0.5"	4-11	0.16-0.43	14	0.55	4	0.157	58	2.28	2.3	0.090
*G-1	0.75"	8-16	0.31-0.63	20	0.78	7.5	0.30	55	2.16	2.3	0.090
G-1 L	0.75"	8-16	0.31-0.63	20	0.78	8	0.31	75	2.95	2.5	0.098
G-1 A	0.875"	8-20	0.31-0.79	25	0.98	7.5	0.30	55	2.16	2.3	0.090
G-1 AL	0.875"	8-20	0.31-0.79	25	0.98	7.5	0.30	75	2.95	2.3	0.090
*G-2	1"	12-26	0.47-1.02	30	1.18	11	0.43	75	2.95	2.5	0.098
G-2 A	1.25"	12-30	0.47-1.18	35	1.37	11	0.43	75	2.95	2.5	0.098
*G-3	1.5"	16-35	0.63-1.37	40	1.57	15	0.59	90	3.59	3.3	0.129
*G-3 L	1.5"	16-35	0.63-1.37	40	1.57	15	0.59	120	4.72	3.3	0.129
G-3 A	1.25"	16-40	0.63-1.57	45	1.77	15	0.59	90	3.59	3.3	0.129
G-3 AL	1.25"	16-40	0.63-1.57	45	1.77	15	0.59	120	4.72	3.3	0.129
*G-8	2"	25-47	0.98-1.85	55	2.16	25	0.98	125	4.92	3.8	0.149
*G-8 L	2"	25-47	0.98-1.85	55	2.16	25	0.98	170	6.69	3.8	0.149
G-8 A	2"	25-55	0.98-2.16	55	2.16	25	0.98	125	4.92	3.8	0.149
G-8 AL	2.25"	25-55	0.98-2.16	63	2.48	25	0.98	170	6.69	3.8	0.149
*G-4	2.5"	35-68	1.37-2.67	75	2.95	35	1.38	140	5.51	4.0	0.157
*G-4 L	2.5"	35-68	1.37-2.67	75	2.95	30	1.18	180	7.08	4.0	0.157
G-4 A	3.25"	36-78	1.41-3.07	85	3.3	36	1.41	140	5.51	4.0	0.157
G-4 AL	3.25"	36-78	1.41-3.07	85	3.3	36	1.41	180	7.08	4.0	0.157
*G-7	3.5"	45-90	1.77-3.54	100	3.93	45	1.77	160	6.29	4.0	0.157
G-7 L	3.5"	45-90	1.77-3.54	100	3.93	45	1.77	200	7.87	4.0	0.157
G-7 A	4.75"	45-110	1.77-4.33	120	4.72	50	1.96	160	6.29	4.0	0.157
G-7 AL	4.75"	45-110	1.77-4.33	120	4.72	50	1.96	200	7.87	4.0	0.157
*G-6	5"	64-120	2.51-4.72	130	5.11	60	2.36	160	6.29	4.6	0.181
G-6 L	5"	64-120	2.51-4.72	130	5.11	65	2.55	300	11.81	4.6	0.181
*G-12	6"	70-145	2.75-5.70	154	6.06	60	2.36	165	9.49	4.6	0.181
G-12 L	6"	70-145	2.75-5.70	156	6.14	65	2.55	300	11.81	4.6	0.181
G-801	9"	140-200	5.51-7.87	230	9.05	120	4.72	220	8.66	4.0	0.157
G-901	12"	140-280	5.51-11.0	310	12.2	120	4.72	220	8.66	7.0	0.275
G-1001	15.75"	230-360	9.05-14.17	400	15.74	200	7.87	220	8.66	4.0	0.157
G-1002	19.5"	230-460	9.05-18.11	500	19.68	200	7.87	220	8.66	6.0	0.236

*Denotes stock items eligible for same-day shipping

Super Seal Tubing

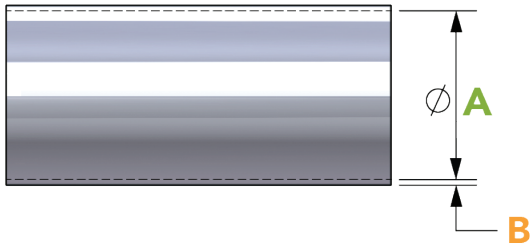


Super Seal Low Voltage adhesive lined tubing is available in both medium and heavy wall sizes. Medium wall tubes (series GMW) are used for environmental protection of low voltage cable terminations and insulating connectors for low voltage straight through joints, splices and jacket repairs up to 1.1kV. Heavy wall tubes (series GHW) are used for mechanical protection and outer sealing of underground straight through cable joints, splices and jacket repairs up to 36kV.

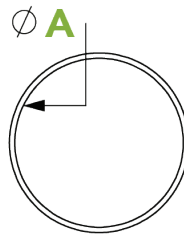
Super Seal tubing has excellent resistance to weathering, UV rays, chemicals and solvents and conform to the IEC 60684-3-247 standard.

TECHNICAL SPECIFICATIONS		
Properties	Value	Standard
Mechanical		
Tensile Strength	13 MPa (1885.5 psi)	ASTM D638
Ultimate Elongation (Min)	350%	ASTM D638
Density	1.03 +/- 0.2 gm/cm ³	ASTM D792
Hardness	50 +/- 10 Shore D	ASTM D2240
Water Absorption (Max)	0.18%	ASTM D570
Specific Gravity (Max)	1.05	ASTM D792
Thermal		
Accelerated Aging (500 Hours)	120°C (248°F)	ASTM D2671
Tensile Strength (Min)	11 MPa (1595 psi)	ASTM D638
Ultimate Elongation (Min)	300%	ASTM D638
Heat Distortion @ 150°C (302°F)	2%	ASTM D1047
Low Temperature Flexibility -40°C (-40°F) for 4 Hrs.	No Cracking	ASTM D2671
Heat Shock 250°C (482°F) for 30 Min.	No Cracking or Flowing	ESI 09-11
Shrink Temperature	125°C (257°F)	IEC 216
Continuous Temperature Limit	-40 to 100°C (-40 to 212°F)	IEC 216
Electrical		
Dielectric Strength (Min)	18 kV/mm (457.2 kV/in)	ASTM D149
Volume Resistivity (Min)	5 x 10 ¹⁴ Ohm-cm	ASTM D257
Dielectric Constant @ 60 Hz (Max)	4.0 pf	ASTM D150
Chemical		
Ozone Resistance - 48 hrs @ 0.03	No Cracking	
Solvent Resistance Test		
Tensile Strength Test	11.5 MPa (1668 psi)	ASTM D257
Elongation Test	325%	ASTM D257
Dielectric Test (Min)	15 kV/mm (381 kV/in)	ASTM D257
Corrosion Test		
Tensile Strength Test	11.5 MPa (1668 psi)	ESI 09-13
Elongation Test	325%	ESI 09-13

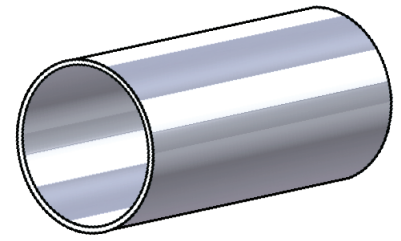
Side View



Front View



Isometric View



MEDIUM WALL TUBING SELECTION CHART

Super Seal Part #	Cable Range			Inside Diameter "A"				Wall Thickness "B"	
	Size	Diameter		Supplied		Recovered		Recovered (+/- 20%)	
	AWG KCML	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)
GMW 10/3	#14 - #8	3 - 9	0.11 - 0.35	10	0.39	3	0.12	1.00	0.04
GMW 12/4	#12 - #6	4 - 10	0.15 - 0.39	12	0.47	4	0.15	1.50	0.06
GMW 19/6	#8 - #3	6 - 16	0.23 - 0.62	19	0.75	6	0.23	2.00	0.08
GMW 27/8	#2 - 2/0	9 - 25	0.35 - 0.98	27	1.06	8	0.31	2.50	0.09
GMW 40/12	1/0 - 250	13 - 38	0.51 - 1.49	40	1.57	12	0.47	2.50	0.09
GMW 51/16	300 - 500	21 - 48	0.82 - 1.88	51	1.97	16	0.63	2.50	0.09
GMW 70/22	600 - 1250	24 - 68	0.94 - 2.67	70	2.75	22	0.86	2.50	0.09
GMW 90/28	-	29 - 88	1.14 - 3.46	90	3.54	28	0.98	2.50	0.09
GMW 115/34	-	32 - 112	1.25 - 4.40	115	4.52	34	1.33	3.00	0.11
GMW 130/36	-	34 - 128	1.33 - 5.03	130	5.11	36	1.47	3.00	0.11
GMW 140/42	-	44 - 138	1.73 - 5.43	140	5.51	42	1.65	3.00	0.11
GMW 160/50	-	45 - 155	1.77 - 6.10	160	6.29	50	1.97	3.00	0.11
GMW 180/60	-	57 - 175	2.24 - 6.88	180	7.08	60	2.36	3.00	0.11
GMW 200/70	-	65 - 190	2.55 - 7.48	200	7.87	70	2.75	3.30	0.13

HEAVY WALL TUBING SELECTION CHART

Super Seal Part #	Cable Range			Inside Diameter "A"				Wall Thickness "B"	
	Size	Diameter		Supplied		Recovered		Recovered (+/- 20%)	
	AWG KCML	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)
GHW 13/4	#12 - #6	4 - 10	0.15 - 0.39	13	0.51	4	0.15	2.4	0.09
GHW 20/6	#8 - #2	6 - 18	0.23 - 0.70	20	0.78	6	0.23	2.5	0.10
GHW 33/8	#4 - #4/0	9 - 25	0.35 - 0.98	33	1.29	8	0.31	3.0	0.12
GHW 40/12	1/0 - 400	13 - 38	0.51 - 1.49	40	1.57	12	0.47	4.1	0.16
GHW 51/16	250 - 500	18 - 45	0.70 - 1.77	51	2.00	16	0.63	4.1	0.16
GHW 70/22	600 - 1250	24 - 65	0.90 - 2.55	70	2.75	22	0.86	4.1	0.16
GHW 85/25	800 - 1200	29 - 88	1.14 - 3.46	85	3.34	25	0.98	4.1	0.16
GHW 105/30	800 - 1250	33 - 94	1.30 - 3.70	105	4.13	30	1.18	4.1	0.16
GHW 120/38	1500 - 2500	34 - 128	1.33 - 5.03	120	4.72	38	1.49	4.1	0.16
GHW 140/42	-	44 - 138	1.73 - 5.43	140	5.51	42	1.65	4.1	0.16
GHW 160/50	-	45 - 155	1.77 - 6.10	160	6.29	50	1.96	4.3	0.17
GHW 180/55	-	57 - 175	2.24 - 7.89	180	7.08	55	2.16	4.3	0.17
GHW 200/65	-	65 - 190	2.55 - 7.48	200	7.87	65	2.55	4.3	0.17

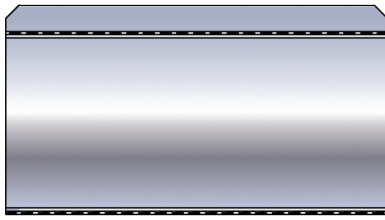
Wrap Sleeves



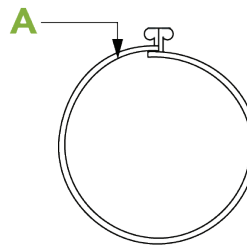
Super Seal Heat Shrink Wrap Around Sleeve is a cross linked polyolefin “open tube” which is folded around a cable or pipe conduit and then is zipped closed with a stainless-steel channel that can be heat shrunk for a moisture proof seal or can be wrapped without heating for a friction fit cable repair. Power shut down is not required with a wrap sleeve repair application. Hot melt provides a complete environmental seal and insulation 1.1kV. Each sleeve is manufactured with high resistance to UV rays, chemicals, corrosion and fungus. The sleeves meet IP 68 (Ingress Protection).

TECHNICAL SPECIFICATIONS		
Properties	Value	Standard
Mechanical		
Tensile Strength (Min)	17 MPa (2465 psi)	ASTM D638
Ultimate Elongation (Min)	300%	ASTM D638
Water Absorption (Max)	0.20%	ASTM D570
ESCR 48 hrs. for 50°C/122°F	No Crack	ASTM D570
Torchability	No Split	TE 201 AOL
Thermal		
Accelerated Aging (500 Hours)	120°C (248°F)	ASTM D2671
Tensile Strength (Min)	15 MPa (2175 psi)	ASTM D638
Ultimate Elongation (Min)	220%	ASTM D638
Heat Shock 250°C (482°F) for 30 Min.	No Cracking or Flowing	ESI 09-11
Shrink Temperature	125°C (257°F)	IEC 216
Continuous Temperature Limit	-40 to + 100°C (-40 to + 212°F)	IEC 216
Electrical		
Dielectric Strength (Min)	12 kV/mm (304.8 kV/in)	ASTM D149
Chemical		
Chemical Resistance in 0.1 N sol. of Na ₂ , So ₄ , NaCl ₂ , H ₂ So ₄	No Cracking	ASTM D2671
Tensile Strength Test	15 MPa (2175 psi)	ASTM D638
Elongation Test	200%	ASTM D638

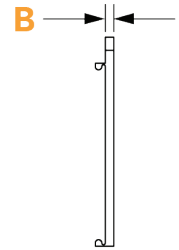
Flat View



Front View



Side View



WRAP AROUND SLEEVE SELECTION CHART

Super Seal Part #	Cable Range			Inside Diameter "A"				Wall Thickness "B"	
	Size	Diameter		Supplied		Recovered		Recovered (+/- 20%)	
	AWG KCML	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)
GWS 55/12	300-500	15-50	0.59-1.96	55	2.17	8	0.31	2.7	0.11
GWS 76/18	600-1250	20-70	0.78-2.75	76	2.99	18	0.71	2.7	0.11
GWS 105/28	800-1250	30-100	1.18-3.93	105	4.13	28	1.1	2.7	0.11
GWS 140/35	1500-2500	40-135	1.57-5.31	140	5.51	35	1.38	2.7	0.11
GWS 190/ 46	-	50-185	1.96-7.28	190	7.48	46	1.81	2.7	0.11
GWS 200/50	-	55-195	2.16-7.67	240	9.45	50	1.97	2.7	0.11



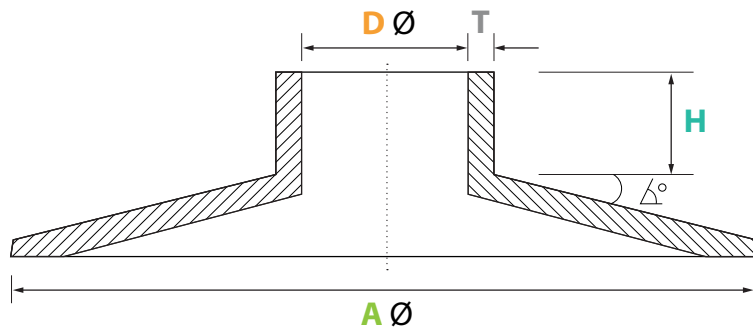
Rain Sheds



Insulshed is used to increase the surface creepage distance of the cores of cable termination without increasing the tail length. They are also used to avoid continuity during rainy season to avoid short circuiting of the electrical network.

The rain sheds are made from high quality cross-linked polyolefin material that offers exceptional non tracking behavior, insulation and long term service reliability for indoor and outdoor applications. The creepage extension sheds are internally coated with water resistant mastic.

TECHNICAL SPECIFICATIONS		
Properties	Value	Standard
Mechanical		
Tensile Strength	12 N/mm ² (Mpa) (min.)	ASTM D638
Ultimate Elongation	350% (min)	ASTM D638
Density	1.15 ± 0.2 gm/cm ³	ASTM D792
Hardness	45 ± 10 Shore D	ASTM D2240
Water Absorption	0.5% (max.)	ASTM D570
Thermal		
Accelerated Aging	(120°C for 500 hrs)	ASTM D2671
Tensile Strength	11 N/mm ² (Mpa) (min)	ASTM D638
Ultimate Elongation	300% (min)	ASTM D638
Low Temperature Flexibility (-40°C for 4 hrs.)	No cracking	ASTM D2671
Heat Shock (250° C for 30 min.)	No cracking or flowing	ESI 09-11
Shrink Temperature	125°C	IEC 216
Continuous Temperature Limit	-40° to + 100°C	IEC 216
Electrical		
Dielectric Strength	15 kV/mm (min)	ASTM D149
Volume Resistivity	1 x 10 ¹⁴ Ohm-cm (min)	ASTM D257
Dielectric Constant	5 (max)	ASTM D150
Resistant to Track & Erosion	No tracking, erosion, or flame failure up to 3.25 kV for 20 min.	ASTM D2303



SELECTION CHART (All dimensions are in mm)

Code	A	Ds	Df	Hs	°	Tf
	(min)	(min)	(max)	(min)	(min)	± 10%
GRS 130-1	90	36	15	17	10	2.5
GRS 130-1 N	88	41	13	33	20	2.5
GRS 130-2	122	51	21	20	10	3.0
GRS 130-2 N	117	55	18	40	20	3.5
GRS 130-3	135	67	31	24	10	3.0
GRS 130-3 N	135	75	28	40	20	3.5
GRS 130-4	138	80	35	30	10	3.0
GRS 130-5	138	105	35	35	10	3.0
GRS 130-6 S	200	120	50	50	10	4.5
GRS 130-6	200	150	50	45	20	4.5





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