



**TECHNICAL
DATASHEET**

**ANTI - TRACKING
TUBING**



Technical Performances

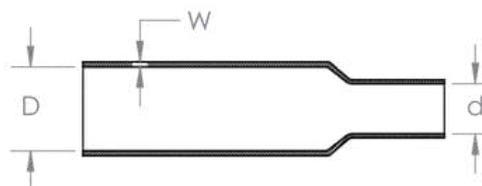
Test Item	Test Method	Requirement
Tensile Strength	ASTM D 2671	Minimum 10 MPa
Ultimate Elongation	ASTM D 2671	Minimum 200%
Tensile Strength after Aging	ASTM D 2671	Minimum 10 MPa (150°C, 168 hrs)
Ultimate Elongation after Aging	ASTM D 2671	Minimum 100% (150°C, 168 hrs)
Heat Shock (200°C, 30 min)	ASTM D 2671	No cracking or dripping
Density	ASTM D 792	1.2 – 1.3 g/cm ³
Dielectric Strength	IEC 60243	Minimum 10 kV/mm (2.5 mm)
Volume Resistivity	ASTM D 2671	Minimum 10 ¹² Ω-cm
Low Temperature Flexibility	ASTM D 2671 Proc.C	No cracking at -40°C (4 hrs)
Permittivity	ASTM D 150	Nominal 3
Tracking Resistance	ASTM D 2303	No tracking

Dimensions

Continues length tubing - NAT									
Size (mm)	Supplied (mm)	Recovered (mm)		Standard Length (m)	Size (mm)	Supplied (mm)	Recovered (mm)		Standard Length (m)
	D*(Min.)	d* (Max.)	W (Min.)			D*(Min.)	d* (Max.)	W(Min.)	
19/6	19	6	2.5	30m/spool or 0.5-1.5m	65/21	65	21	3.3	30m/spool or 0.5-1.5m
30/10	30	10	2.9	30m/spool or 0.5-1.5m	75/25	75	25	3.5	30m/spool or 0.5-1.5m
38/12	38	12	2.9	30m/spool or 0.5-1.5m	85/29	85	29	3.5	30m/spool or 0.5-1.5m
40/16	40	16	2.9	30m/spool or 0.5-1.5m	100/40	100	40	4.0	0.5-1.5m
49/16	49	16	2.9	30m/spool or 0.5-1.5m	130/50	130	50	4.0	1.0-1.5m
55/18	55	18	2.9	30m/spool or 0.5-1.5m					

Cut length tubing - NATA									
Size (mm)	Supplied (mm)	Recovered (mm)	W (Min.)	Standard Length (m)	Size (mm)	Supplied (mm)	Recovered (mm)	W (Min.)	Standard Length (m)
30/10	30	10	2.9	1.0-1.5	65/21	65	21	3.3	1.0-1.5
40/12	40	12	2.9	1.0-1.5	75/25	75	25	3.5	1.0-1.5
43/14	43	14	2.9	1.0-1.5	85/29	85	29	3.5	1.0-1.5
49/16	49	16	2.9	1.0-1.5	100/40	100	40	4.0	1.0-1.5
55/18	55	18	2.9	1.0-1.5	130/50	130	50	4.0	1.0-1.5

D* = Inner diameter as supplied
d* = Inner diameter after fully recovered
w* = Outer Layer Wall thickness after fully recovered



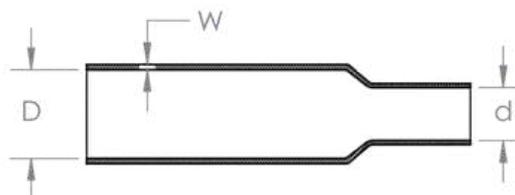
Technical Performances

Property	Test Method	Requirement
Tensile Strength	ASTM D 2671	Minimum 10 MPa
Ultimate Elongation	ASTM D 2671	Minimum 200%
Tensile Strength after Aging (150°C, 168 hrs)	ASTM D 2671	Minimum 8 MPa
Ultimate Elongation after Aging	ASTM D 2671	Minimum 200%
Heat Shock (250°C, 30 min)	ASTM D 2671	No cracking or dripping
Density	ASTM D 792	Nominal 1.1 g/cm ³
Volume Resistivity	ASTM D 257	Maximum 10 ⁴ Ω·cm
Low Temperature Flexibility (-40°C, 4 hrs)	ASTM D 2671	No cracking
Water Absorption	ISO 62	Maximum 0.15%

Dimensions

Size(mm)	Supplied(mm)		Recovery(mm)		Standard length (m)
	D* (Min.)	d*(Max.)	w*(Min.)		
33/8	33	8	2.4		1.0-1.5
40/12	40	12	2.5		1.0-1.5
55/16	55	16	2.8		1.0-1.5
75/22	75	22	3.0		1.0-1.5
95/25	95	25	3.1		1.0-1.5

D* = Inner diameter as supplied
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w* = Outer Layer Wall thickness after fully recovered



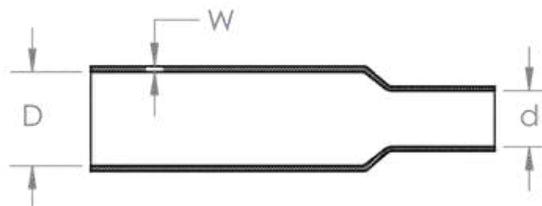
Technical Performances

Property	Test Method	Requirement
Tensile Strength	ASTM D 2671	Minimum 10 MPa
Ultimate Elongation	ASTM D 2671	Minimum 200%
Tensile Strength after Aging (150°C, 168 hrs)	ASTM D 2671	Minimum 8 MPa
Ultimate Elongation after Aging	ASTM D 2671	Minimum 200%
Heat Shock (250°C, 30 min)	ASTM D 2671	No cracking or dripping
Density	ASTM D 792	Nominal 1.1 g/cm ³
Volume Resistivity	ASTM D 257	Maximum 10 ⁴ Ω·cm
Low Temperature Flexibility (-40°C, 4 hrs)	ASTM D 2671	No cracking
Water Absorption	ISO 62	Maximum 0.15%

Dimensions

Size(mm)	Supplied(mm)		Recovery(mm)		Standard length (m)
	D* (Min.)	d*(Max.)	w*(Min.)		
33/8	33	8	2.4		1.0-1.5
40/12	40	12	2.5		1.0-1.5
55/16	55	16	2.8		1.0-1.5
75/22	75	22	3.0		1.0-1.5
95/25	95	25	3.1		1.0-1.5

D* = Inner diameter as supplied
d* = Inner diameter after fully recovered
w* = Outer Layer Wall thickness after fully recovered



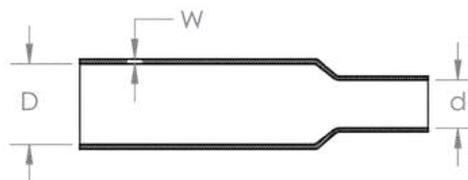
Technical Performances

Property	Test Method	Requirement
Tensile Strength	ASTM D 2671	Minimum 8 MPa
Ultimate Elongation	ASTM D 2671	Minimum 200%
Heat Shock (200°C, 30 min)	ASTM D 2671	No cracking or dripping
Permittivity	IEC 60250	30 – 55
Volume Resistivity	IEC 93	Minimum $10^9 \Omega\text{-cm}$

Dimensions

Size (mm)	Supplied (mm)		Recovery (mm)		Standard length (m)
	D* (Min.)	d*(Max.)	w(Min.)		
35/15	35	15	2.3		15m/spool or 1.0-1.5m
47/18	47	18	2.4		15m/spool or 1.0-1.5m
55/21	55	21	2.4		15m/spool or 1.0-1.5m
65/25	65	25	2.4		15m/spool or 1.0-1.5m
75/30	75	30	2.4		15m/spool or 1.0-1.5m

D* = Inner diameter as supplied
d* = Inner diameter after fully recovered
w* = Outer Layer Wall thickness after fully recovered



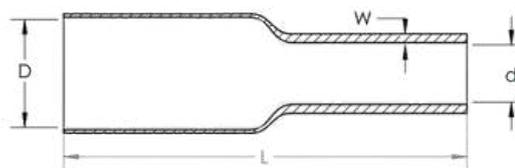
Technical Performances

Layer	Test Item	Test Method	Requirement
Insulation Layer	Tensile Strength	ASTM D 2671	Minimum 10 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 200%
	Volume Resistivity	IEC 93	Maximum $10^{14} \Omega\text{-cm}$
	Water Absorption	ISO 62	Maximum 0.5%
Semi-Conductive Layer	Tensile Strength	ASTM D 2671	Minimum 12 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 200%
	Volume Resistivity	ASTM D 257	Maximum $10^4 \Omega\text{-cm}$

Dimensions

Size (mm)	Supplied (mm)		Recovery (mm)		Standard length(m)
	D* (Min.)	d*(Max.)	w(Min.)		
36/12	36	12	5.4		1.0-1.2
45/15	45	15	5.4		1.0-1.2
55/18	55	18	5.4		1.0-1.2
65/22	65	22	6.0		1.0-1.2
73/26	73	26	6.0		1.0-1.2
85/30	85	30	6.0		1.0-1.2
95/34	95	34	6.0		1.0-1.2
100/38	100	38	6.0		1.0-1.2
115/34	115	34	6.0		1.0-1.2
120/45	120	45	6.1		1.0-1.2

D* = Inner diameter as supplied
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 w* = Outer Layer Wall thickness after fully recovered



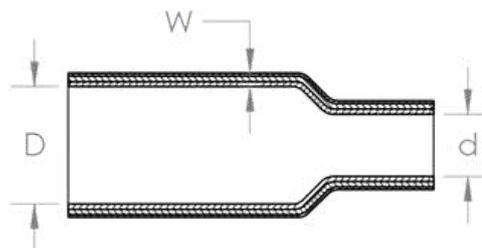
Technical Performances

Layer	Test Item	Test Method	Requirement
Insulation Layer	Tensile Strength	ASTM D 2671	Minimum 10 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 200%
	Volume Resistivity	IEC 93	Maximum 10^{14} Ω -cm
	Water Absorption	ISO 62	Maximum 0.5%
Elastomer Layer	Tensile Strength	ASTM D 2671	Minimum 5 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 500%
	Volume Resistivity	IEC 93	Minimum 10^{14} Ω -cm
Semi-Conductive Layer	Tensile Strength	ASTM D 2671	Minimum 12 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 200%
	Volume Resistivity	ASTM D 257	Maximum 10^4 Ω -cm

Dimensions

Size (mm)	Supplied (mm)		Recovered (mm)		Standard Length (m)
	D*(Min.)	d*(Max.)	w(Min.)	w(Max.)	
36/12	36	12	7.3	7.3	1.0-1.22
46/15	46	15	7.3	7.3	1.0-1.22
50/18	50	18	7.3	7.3	1.0-1.22
56/21	56	21	7.3	7.3	1.0-1.22
62/25	62	25	7.3	7.3	1.0-1.22
70/30	70	30	7.3	7.3	1.0-1.22
80/36	80	36	7.3	7.3	1.0-1.22
95/40	95	40	7.3	7.3	1.0-1.22
120/50	120	50	7.3	7.3	1.0-1.22

D* = Inner diameter as supplied
d* = Inner diameter after fully recovered
w* = Outer Layer Wall thickness after fully recovered



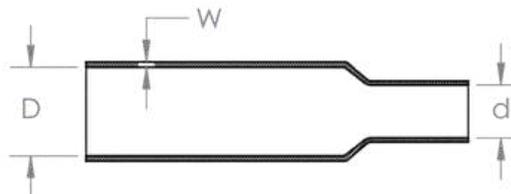
Technical Performances

Property	Test Method	Requirement
Tensile Strength	ASTM D 2671	Minimum 12 MPa
Ultimate Elongation	ASTM D 2671	Minimum 200%
Volume Resistivity	IEC 93	Minimum 10^{14} Ω -cm
Dielectric Strength	IEC 60243	Minimum 20 kV/mm (1.0 mm)
Water Absorption	ISO 62	Maximum 0.5%

Dimensions

Size (mm)	Supplied (mm)		Recovery (mm)		Standard Length (m)
	D* (Min.)	d*(Max.)	w(Min.)		
35/12	35	12	3.2		1.0-1.5
45/14	45	14	3.5		1.0-1.5
52/15	52	15	3.9		1.0-1.5
55/18	55	18	3.9		1.0-1.5
66/20	66	20	4.4		1.0-1.5
75/25	75	25	5.0		1.0-1.5
95/30	95	30	5.0		1.0-1.5

D* = Inner diameter as supplied
 d* = Inner diameter after fully recovered
 w* = Outer Layer Wall thickness after fully recovered



Technical Performances

Layer	Property	Test Method	Typical Data
Inner	Tensile Strength	ASTM D 2671	Minimum 5 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 800%
	Water Absorption	ISO 62	Maximum 0.5%
	Dielectric Strength	IEC 60243	Minimum 22 kV/mm
	Volume Resistivity	IEC 93	Minimum 10^{14} Ω -cm
Outer	Tensile Strength	ASTM D 2671	Minimum 12 MPa
	Ultimate Elongation	ASTM D 2671	Minimum 300%
	Dielectric Strength	IEC 60243	Minimum 20 kV/mm
	Volume Resistivity	IEC 93	Minimum 10^{14} Ω -cm
	Water Absorption	ISO 62	Maximum 0.5%

Dimensions

Type	H a (mm) Min.	H b (mm) Max.	W1 b (mm) nom.	W2 b (mm) Min.	W1+W2 b (mm) Min.	P Standard Length (m)
NEGT 42/16	42	16	1.9	2.0	3.9	0.38-1.5
NEGT 54/21	54	21	1.9	2.0	3.9	0.38-1.5
NEGT 62/26	62	26	1.9	2.0	3.9	0.38-1.5
NEGT 55/20	55	20	2.9	3.0	5.9	0.38-1.22
NEGT 62/25	62	25	2.9	3.0	5.9	0.38-1.22
NEGT 70/30	70	30	2.9	3.0	5.9	0.38-1.22
NEGT 80/34	80	34	2.9	3.0	5.9	0.38-1.22
NEGT 95/40	95	40	2.9	3.0	5.9	0.38-1.22

Size (mm)	Supplied (mm)		Recovery (mm)		Standard Length (m)
	D* (Min.)	d*(Max.)	w(Min.)		
19/6	19	6	2.00		30m/spool
25/10	25	10	2.00		30m/spool
30/12	30	12	2.00		30m/spool
35/14	35	14	2.50		30m/spool
40/16	40	16	2.50		30m/spool
50/20	50	20	2.50		15m/spool
65/25	65	25	2.95		15m/spool
85/35	85	35	2.95		15m/spool

D* = Inner diameter as supplied
d* = Inner diameter after fully recovered
w* = Outer Layer Wall thickness after fully recovered

