WIRE PROTECTION REFERENCE CHART

STANDARD CONVOLUTE TUBING

Dimensions											
	6	8	9	10	13	16	19	22	25	30	40
STD Half Gaylord Diameters (mm)	10,000′	7,000′	7,000′	5,000′	3,500′	2,500′	2,000′	1,500′	1,000′	800′	500′
O.D.	9.85	11.65	1	14.77	17.33	20.91	24.7	28.68	32.78	37.6	48.7
I.D.	6.35	7.75	8.87	10.4	12.61	15.68	18.86	22.2	25.72	30	40

Other Metric and English sizes available upon request

Applications						
Colors are called out by Delphi specification. (other color options available upon request)	**Polyethylene**	**Flame Retardant Polyethylene**	**Polypropylene**	**Flame Retardant Polypropylene**	**Nylon**	**ETP Modified Polyester**
Delphi Specification	M1883	M1883	M1888	M3505	M1889	M4640
Color	Black	Dark Grey	Black w/Green Stripe	Black w/Brown Stripe or Blue/Green	Black w/Grey Stripe	Black w/Blue Stripe
Operating Temperature Range	-40°C to 80°C	-40°C to 80°C	-40°C to 125°C	-40°C to 120°C	-40°C to 120°C	-40°C to 160° C
Vehicle Location	Passenger Compartment	Passenger Compartment	Engine Compartment	Engine Compartment	Engine Compartment	Engine Compartment
Pinch & Abrasion Resistance	Good	Good	Good	Good	Excellent	Excellent

TEXTILE SLEEVE FOR HIGH ABRASION APPLICATIONS

- Offered in various ranges of abrasion resistance
- Easy to install, and have flexibility to fit various contours
- Cost competitive to similar products in the marketplace
- Offered in various ranges of heat resistance from –40°C to 240°C
- Eliminates condensation retention due to construction

Featured Products

	Nu-Guard DP	Nu-Guard SC-P	Nu-Flex WHS-25
TEMPERATURE RANGE	-40°C to 150°C	-40°C to 150°C	-43°C to 240°C
SIZE RANGE	6MM to 44MM	5MM to 42MM	1/8" to 3"
FEATURE	Extremely Flexible	Flexible and Easy to install	UL VW-1 Recognized Insulation

MEASUREMENT EQUIVALENTS

FRACTIONS VS DECIMALS

Fraction	Decimal
1/32	0.0313
1/16	0.0625
3/32	0.0938
1/8	0.1250
5/32	0.1563
3/16	0.1875
7/32	0.2188
1/4	0.2500
9/32	0.2813
5/16	0.3125
11/32	0.3438
3/8	0.3750
13/32	0.4063
7/16	0.4375
15/32	0.4688
1/2	0.5000
17/32	0.5313
9/16	0.5625
19/32	0.5938
5/8	0.6250
21/32	0.6563
11/16	0.6875
23/32	0.7188
3/4	0.7500
25/32	0.7813
13/16	0.8125
27/32	0.8438
7/8	0.8750
29/32	0.9063
15/16	0.9375
31/32	0.9688
1	1.0000

MILLIMETER VS INCHES

mm	in.	mm	in..
0.50	0.02	13.50	0.53
1.00	0.04	14.00	0.55
1.50	0.06	14.50	0.57
2.00	0.08	15.00	0.59
2.50	0.10	15.50	0.61
3.00	0.12	16.00	0.63
3.50	0.14	16.50	0.65
4.00	0.16	17.00	0.67
4.50	0.18	17.50	0.69
5.00	0.20	18.00	0.71
5.50	0.22	18.50	0.73
6.00	0.24	19.00	0.75
6.50	0.26	19.50	0.77
7.00	0.28	20.00	0.79
7.50	0.30	20.50	0.81
8.00	0.31	21.00	0.83
8.50	0.33	21.50	0.85
9.00	0.35	22.00	0.87
9.50	0.37	22.50	0.89
10.00	0.39	23.00	0.91
10.50	0.41	23.50	0.93
11.00	0.43	24.00	0.94
11.50	0.45	24.50	0.96
12.00	0.47	25.00	0.98
12.50	0.49	25.50	1.00
13.0	0.51		

CELSUIS VS FAHRENHEIT

°C	°F	°C	°F
400	752	150	302
390	734	140	284
380	716	130	266
370	698	120	248
360	680	110	230
350	662	100	212
340	644	90	194
330	626	80	176
320	608	70	158
310	590	60	140
300	572	50	122
290	554	40	104
280	536	30	86
270	518	20	68
260	500	10	50
250	482	0	32
240	464	-10	14
230	446	-20	-4
220	428	-30	-22
210	410	-40	-40
200	392	-50	-58
190	374	-60	-76
180	356	-70	-94
170	338	-80	-112
160	320		

WIRE GAGES

SAE Cable Rated Cross Section				DIN Cable Rated Cross Section	
Battery Cable Range Conversion Metric Size (mm2)	SAE Gage	Primary Cable Range Conversion Metric Size (mm2)	SAE Gage	Primary Cable (mm2)	Battery Cable (mm2)
13.0	6	0.13	26	0.22	10
19.0	4	0.22	24	0.35	16
32.0	2	0.35	22	0.5	25
40.0	1	0.50	20	0.75	35
50.0	0	0.80	18	1	50
62.0	2/0	1.00	16	1.5	70
81.0	3/0	2.00	14	2.5	95
103.0	4/0	3.00	12	4	120
		5.00	10	6	
		8.00	8		

Phone: 1-800-722-5273 • E-mail: salesna@powersignal.com
www.powerandsignal.com