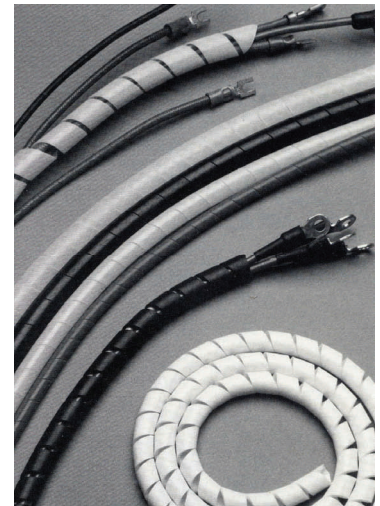


SPIRAL - CUT CABLE WRAP

KEY FEATURES: Markel spiral-cut tubing is an expandable plastic wrap for harnessing cable assemblies. It is easily applied and provides for individual wire break-outs at any point. Various materials are selected for applications that require exposure to extremes of heat and cold temperatures or sunlight.

APPLICATIONS: Markel spiral-cut tubing is used to organize and protect cable bundles up to a diameter of 4 inches (102 mm). It is made in four materials to meet a wide range of applications. PTFE is used on aircraft engine harnesses. Black polyethylene is used on outdoor cables by utility companies and cable TV installers. Nylon is used by appliance manufacturers.



MATERIAL SPECIFICATIONS:

- Vinyl - Spiral-Cut Vinyl (SCV) meets ASTM D922, Grade CFR and MIL-I-631D. It is recognized under the component program of Underwriter’s Laboratories, Inc. Standard color is white.
- Nylon - Spiral-Cut Nylon (SCN) meets MIL-M-20693A, Type 1 Standard color is natural.
- Polyethylene - Spiral-Cut Polyethylene (SCP) meets the property requirements of Federal Specification L-P 390B and MIL-I-631D, Type A. Standard color is black.
- PTFE - Spiral-Cut Polytetrafluoroethylene (SCT) meets AMS 3651B, AMS 3653C and MIL-I-22129C. It is recognized under the component program of Underwriter’s Laboratories, Inc. Standard color is natural (milky white).

SIZE Inch (mm)	NOMINAL OD Inch (mm)	WALL Inch (mm)	PITCH Inch (mm)	MAX. BUNDLE Dia. Inch (mm)
1/8	.125 (3.175)	.030 (nylon .015)	.250 (6.35)	1/2 (12.7)
1/4	.250 (6.35)	.030 (vinyl .060) (poly .045)	.375 (9.525)	2 (50.9)
3/8	.375 (9.525)	.030 (vinyl .060) (poly .060)	.437 (11.1)	3 (76.2) PTFE 2 1/2 (63.5)
1/2	.500 (12.7)	.030 (vinyl .060) (poly .060)	.562 (14.27)	4 (101.6) PTFE 3 (76.2)

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PERFORMANCE CHARACTERISTICS:

PROPERTY and ASTM METHOD	VINYL Flame Retardant	NYLON	POLYETHYLENE	PTFE (Polytetraethylene)
Operating Temp.	-20 to 105°C	-60 to 80°C	-55 to 80°C	-100 to 250°C
Abrasion Resistance Taber D1044	34 mg. Loss per M cycles	5 mg. Loss per M cycles	22 mg. Loss per M cycles	7 mg. Loss per M cycles
Dielectric Constant D150	3.4	2.9	2.5	2.1
Tensile Strength at 73F D412 D638	- 3000 psi	41.4 MPa 6,000 psi	2,000 psi -	- 3,000 psi
Specific Gravity D792	1.38	1.08	0.92	2.14 - 2.21
Water Absorption 24 Hr. D570	0.036%	1.5%	0.014%	0.005%
Effect of Organic Solvents at Ambient	Negligible	Negligible except for phenol deriva- tives	None below 122°F	None
Effect of Acids at Ambient	Negligible	Satisfactory except for strong acids	Negligible except for concentrated mineral acids	None
Effect of Alkalies at Ambient	Negligible	Negligible	None	None
Flammability D635	0-Self-extinguishing	94HB	1.0 in./min on wire bundle	0-Non-flammable

The above are typical performance data and are not intended to be used as design data.