

Abrasion Protection Products for the Electric Vehicle Market

Manufacturers of Electric Vehicles require high-voltage cabling to be protected and identified appropriately. Panduit offers two product groups in the abrasion protection family that satisfy the demands of the Medium and Heavy-Duty Electric Vehicle market. Both Corrugated Loom Tubing and Split Braided Sleeving are desirable products that provide options to the EV manufacturer to accommodate different application requirements. These two abrasion protection products complement our offering of High Voltage Clamps, Corrugated Loom Tubing Clamps, and Range Taking Clamps that are also provided to this market.

Corrugated Loom Tubing

The Corrugated Loom Tubing product offering provides an economical tubing with a lengthwise slit that makes it easy to install over new or existing bundles of high-voltage cabling. The corrugated design allows flexibility to accommodate tight bends required at termination points. Corrugated Loom Clamps are available to help route and secure the tubing to provide an additional level of protection.



KEY FEATURES AND BENEFITS

Nylon Material:	Robust material that supports high levels of abrasion protection, UV exposure, and flammability resistance
UV Resistance:	Options available to allow for outdoor applications
Flammability Performance:	Tested to UL94V-2 flammability standards
Orange Color:	Highly visible color to allow easy identification of high voltage cabling
Wide Temperature Range:	Suitable for -40°F – 275°F (-40°C – 135°C)
Lengthwise Slit:	Allows easy installation on cable bundles
Ease of Installation:	Can be installed with the patented installation tool that allows for easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost
Full Range of Sizes:	Available in 8 sizes that range from ¼” up to 1½” to meet a variety of application requirements
Convenient Packaging:	Packaged in economical longer lengths, but still manageable to move without the use of a forklift

Part Number (Flame Retardant)	Part Number (Flame Retardant and UV Resistant)	Inside Diameter (in)	Inside Diameter (mm)	Outside Diameter (in)	Outside Diameter (mm)	Standard Package Quantity (ft.)	Standard Package Quantity (m)
CLT25NFR-3	CLT25NFRUV-3	.26	6.5	.39	10	2952	900
CLT38NFR-3	CLT38NFRUV-3	.39	10	.51	13	1771	540
CLT50NFR-3	CLT50NFRUV-3	.47	12	.62	15.8	1050	320
CLT62NFR-3	CLT62NFRUV-3	.67	17	.84	21.2	656	200
CLT75NFR-3	CLT75NFRUV-3	.79	20	.98	25	387	118
CLT100NFR-3	CLT100NFRUV-3	1.14	29	1.36	34.5	184	56
CLT125NFR-3	CLT125NFRUV-3	1.42	36	1.67	42.5	105	32
CLT150NFR-3	CLT150NFRUV-3	1.89	48	2.15	54.5	85	25

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Split Braided Sleeving

The Split Braided Sleeving product offering provides a premium abrasion protection solution that is manufactured from a braided PET material that will not trap heat or moisture. The lengthwise slit overlaps by 25% to assure appropriate coverage of the cable bundles over which it is installed. The Pan-Wrap™ Braided Sleeving is well suited for the challenging applications found in the Medium and Heavy-Duty Electric Vehicle Markets.



KEY FEATURES AND BENEFITS

PET Material:	Robust material that supports high levels of abrasion protection, UV exposure, and flammability resistance
UV Resistance:	Suitable for use in outdoor environments
Flammability Performance:	Flame retardant according to automotive flammability standard SAEJ369
Orange Color:	Highly visible color to allow easy identification of high voltage cabling
Wide Temperature Range:	Suitable for -40°F to 302F (-40°C – 150°C)
Lengthwise Slit:	Allows easy installation on cable bundles
Split Wrap Design:	Allows for installation after cable routing is complete, breakouts of single and multiple cables, and addition or removal of cables post-installation
Ease of Installation:	Can be installed with the patented installation tool that allows for easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost
Full Range of Sizes:	Available in 7 sizes that range from ¼” up to 2” to meet a variety of applications
Convenient Packaging:	Packaged in convenient payout boxes to eliminate the need for a forklift

Part Number	Inside Diameter (in)	Nominal Diameter (mm)	Length Per Reel (ft)	Length Per Reel (m)	Standard Package Quantity
SE25PS-TR3	0.25	6.4	200	61.0	1
SE50PS-CLR3	0.50	12.7	150	45.7	
SE75PS-CR3	0.75	19.1	100	30.5	
SE100PS-CR3	1.00	25.4	100	30.5	
SE125PS-LQR3	1.25	31.8	75	22.9	
SE150PS-LQR3	1.50	38.1	75	22.9	
SE200PS-LR3	2.00	50.8	50	15.2	

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For more information visit:
www.panduit.com

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INSTALLATION TOOLS

Part Number	For Use With	Standard Package Quantity
PWT38	CLT38	1
PWT50	CLT50, CLT62, SE50	
PWT75	CLT75, SE75	
PWT100	CLT100, CLT125, SE100, SE125	
PWT150	CLT150, SE150, SE200	

INSTALLATION INSTRUCTIONS



Open Pan-Wrap™ Tool and insert bundle.



Close tool to contain bundle.



Slide Pan-Wrap™ Split Harness Wrap onto end of tool until approximately 3" of it covers the bundle.



Grasp end of Pan-Wrap™ Split Harness Wrap and bundle while pulling the tool along the bundle length.

RELATED PRODUCTS

High Voltage Clamps



Corrugated Loom Clamps



Range Taking Clamps



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