



RENEWABLE ENERGIES PROTECTION SOLUTIONS Industrial Market





RENEWABLE ENERGIES

Solar panels, wind turbines, heat pumps... All those systems require the usage of cables to operate. These cables can be protected using standard protections, but also need specific protections due to their outdoor operation: UV resistant solutions to avoid premature wear due to weathering but also protection against rodent bites due to their appeal for the cable covers.

SPECIAL APPLICATIONS

UV PROTECTION

Cables are working under harsh conditions while being used for outdoor applications. UV are especially aggressive them, even on standard protection solutions. In that case, specific and adapted tubing are required to maintain the well operation of the systems.

Tested according the **ISO 4892-2 specification up to 9000h**, our **PPME_UV** material is the ideal choice to protect efficiently the sensitive networks. This special formulated polypropylene is available on our **POLYFLEX NP & TWIN FLEX profiles** to combine the mechanical protection with the UV resistance of our material.



ANTI-RODENT PROTECTION

Outdoor cables, especially in contact with the ground, are also exposed to rodent damages. Attracted by the material composing the cable outer layer, these aggressions can lead to high maintenance costs & downtime.

- **POLYFLEX NP PPME_AR**: standard convoluted tubing profile, made with an anti-rodent polypropylene material
- **TPSO_AR**: flexible smooth tubing for slight frictions or bundling applications, made with an anti-rodent thermoplastic elastomer
- **LANGOFLEX PET-HD_AR**: high density braided sleeving, made with an anti-rodent PET material



PRODUCT NAME	PHOTO	CONSTRUCTION	TEMPERATURE OF USE	FLAMMABILITY	APPLICATIONS*
UV PROTECTION					
POLYFLEX NP PPME_UV		Standard convoluted tubing, slit or non slit, made from a UV resistant polypropylene	-40/125°C	self-ext.	
TWIN FLEX PPME_UV		Double C-shaped tubing locking into each other, made from a UV resistant polypropylene	-40/125°C	self-ext.	
ANTI-RODENT PROTECTION					
POLYFLEX NP PPME_AR		Standard convoluted tubing, slit or non slit, made from an anti-rodent polypropylene	-40/125°C	UL94 V2	
TPSO_AR		Flexible smooth tubing for light abrasion or bundling applications, with anti-rodent additive	-40/125°C	UL94 V0	
LANGOFLEX PET-HD_AR		PET .010" (0.25mm) braided monofilament with anti-rodent additive - high density construction	-40/150°C	self-ext.	
STANDARD PROTECTION					
POLYFLEX CONVOLUTED TUBING		Standard convoluted tubing, slit or non slit, different profiles & materials available	up to -40/260°C	depending on material grade	
TWIN FLEX		Double C-shaped tubing locking into each other, different materials available	up to -40/135°C	depending on material grade	
TWIN TRUCK		One C-shaped & one slit tubing locking into each other, different materials available	up to -40/135°C	depending on material grade	
POLYFLEX ACCESSORIES		Branching, fastening, connecting or closure accessories for wire routing & fastening	up to -40/135°C	depending on material grade	
LANGOFLEX PET series		PET .010" (0.25mm) braided monofilament, from standard to high density construction	-40/150°C	self-ext.	
LANGOFLEX PET FR		Flame retardant PET .010" (0.25mm) braided monofilament	-40/150°C	UL94 V2	
LANGOFLEX PET V0		UL94 V0 PET .010" (0.25mm) braided monofilament	-40/150°C	UL94 V0	
LANGOFLEX PPS		PPS .010" (0.25mm) braided monofilament, high temperature applications	-40/200°C	self-ext.	
NU-GUARD SC series		PET mono & multifilaments self-closing sleeving, from medium to high abrasion protection	-40/150°C	self-ext.	
NU-GUARD SC-P V0		UL94 V0 PET mono & multifilaments self-closing sleeving, high abrasion protection	-40/150°C	UL94 V0	
NU-SLEEVE SG-200		Silicone coated fiberglass braided sleeving, from Grade A to Grade C-3 dielectric grades	-55/230°C	self-ext.	
NU-SLEEVE AG-155		Acrylic coated fiberglass braided sleeving, from Grade A to Grade C-3 dielectric grades	-40/155°C	self-ext.	
NU-TUBE PA		PA6 multifilament tight woven tubular sleeving	-40/125°C	< 100 mm/min	
NU-WRAP PA		PA6 multifilament tight woven wrappable sleeving, with a hook/loop closure system	-40/125°C	< 100 mm/min	
NU-SHRINK		PET/PE heat-shrinkable woven tubular sleeving	-40/125°C	< 100 mm/min	

- * Mechanical & Abrasion Protection Compression Resistance Wire Routing & Fastening Anti-Rodent Protection Noise Reduction UV resistance
 Electromagnetic Shielding Radiant Heat Protection Thermal Protection Electrical Insulation Impact & Crash Resistance Fire resistant protection

SCHLEMMER is a global leader in delivering **advanced protection solutions**, specializing in cable management dedicated to the industrial market. Specializing in UV resistance, temperature resilience, anti-rodent protection and chemical stability, Schlemmer's products enhance the efficiency and sustainability of renewable energy infrastructures.

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