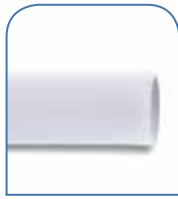




# Schutzschlauch Auswahlkriterien

## Selection criteria for protective conduits


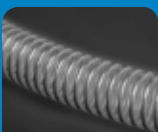
Schutzschlauch Protective conduit	Eigenschaften Properties																	
	Material Material	IP Schutzart IP Protection class	Temperatur min. [°C] Temperature min [°C]	Temperatur max. [°C] Temperature max [°C]	Temperatur kurzzeitig [°C] Temperature short term [°C]	Halogenfrei Free of halogen	UV - beständig [schwarz] UV - resistance [black]	Brandklasse [UL94] Flammability [UL94]	Druckfestigkeit Resistance to compression	Schlagfestigkeit Resistance to impact	Widerstand gegen Biegen Resistance to bending	Zugfestigkeit Tensile strength	Ölbeständigkeit Oil resistance	Lösungsmittelbeständigkeit Solvent resistance	Biegewechselfestigkeit Alternative bending strength	Flammbeständigkeit Flame resistance	Rauchgasdichte Density of smoke	Nicht - Flammausbreitend No - flame propagation
ROHRflex PA 6	PA6	IP68	-40°	+115°	+150°	•	•	VO									•	•
ROHRflex PA 6 S	PA6	IP68	-50°	+120°	+150°	•	•	HB									•	•
ROHRflex PA 6-D	PA6	IP68	-40°	+115°	+150°	•	•	VO									•	•
ROHRflex PA 12	PA12	IP68	-50°	+100°	+150°	•	•	V2									•	•
ROHRflex PA 12-D	PA12	IP68	-50°	+100°	+150°	•	•	V2									•	•
ROHRflex PU	PU	IP68	-60°	+120°		•	•	HB										•
ROHRflex PA 6-HT	PA6	IP68	-40°	+200°		•	•	V2									•	•
FLEXAzip	PA6		-40°	+105°	+120°	•	•	HB										•
ROHRflex MULTI - PA 6	PA6		-40°	+115°		•	•	HB										•
SPR-AS	Stn	IP40		+220°		•	•										•	
SPR-VA	V2A	IP40	-200°	+600°		•	•											
SPR-EDU-AS	Stn/Stn	IP40		+220°		•	•										•	
FLEXAgraff-AS	Stn	IP40		+220°		•	•										•	
FLEXAgraff-VA	V2A	IP40	-200°	+600°		•	•											
FLEXAgraff-CU-AS	Stn/CU	IP40		+150°		•	•										•	
SPR-PVC-AS	Stn/PVC	IP68	-25°	+80°	+100°												•	•
SPR-PA	Stn/PA	IP68	-50°	+115°	+150°	•	•										•	•
SPR-PU-AS	Stn/PU	IP68	-40°	+80°	+120°	•	•	V2									•	•
FLEXAgraff-PU-AS	Stn/PU	IP68	-40°	+80°	+120°	•	•	V2									•	•
FLEXAgraff-SI-ASF	Stn/Si	IP68	-60°	+120°		•	•										•	•
FLEXAgraff-CU-PU-AS	Stn/CU/PU	IP68	-40°	+80°	+120°	•	•	V2									•	•
LIQUID-TIGHT-EF	Stn/PVC	IP68	-25°	+85°	+100°												•	•
LIQUID-TIGHT-UL-CSA	Stn/PVC	IP68	-20°	+95°	+120°													•
AIRflex-KUW-PVC-AS	F/PVC	IP68	-25°	+80°	+100°													•
AIRflex-KUW-PU-AS	F/PU	IP68	-40°	+80°	+120°	•	•	V2									•	•
AIRflex-GRS	PVC	IP68	-25°	+80°	+100°													•
AGROflex PA	PA		-40°	+125°		•	•	V2									•	•
AGROflex PET	PET		-50°	+150°		•	•											•
HG-CU	CU		-75°	+150°		•	•											•
PS-VA	V2A/Si/GL		-60°	+260°		•	•										•	•

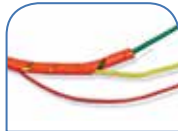
Schutzschlauch Protective conduit	Schienenfahrzeuge Railway industry						Schiff Ship		Industrie Industry				Einsatzbereiche Applications										
	EN 45545-2	DIN 5510-2	NFF 16101 / 102	BS 6853	UNI CEI 11170	ASTM E162 / E662	Lloyd's Register	DNV	VDE Zulassung [EN 61386] VDE approval [EN 61386]	UR Zulassung [UL 1696] UR approval [UL 1696]	Rütteltest [EN IEC 61373] Vibration test [EN IEC 61373]	EMV Zulassung [EN 50289 1-6] EMC approval [EN 50289 1-6]	Maschinen- und Anlagenbau Machine and Plantconstructions	Fahrzeugbau Automotive	Schienenfahrzeuge Railway industry	Schiffsbau Shipbuilding	Automation Automation	Elektroanlagen Electrical installations	Medizintechnik Medical technology	Sensortechnik Senso technology	Ex-Bereich [EN 1127-1] Ex-area [EN 1127-1]	EMV-Anwendungen EMC-applications	Hochtemperaturbereiche High temperature areas
ROHRflex PA 6	HL3	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•						
ROHRflex PA 6 S		•	•			•	•	•	•	•		•	•		•	•	•						
ROHRflex PA 6-D	HL3	•				•			•	•		•	•	•	•	•	•						
ROHRflex PA 12	HL3	•	•	•	•	•	•	•		•		•	•	•	•	•	•						
ROHRflex PA 12-D	HL3	•	•	•	•	•	•	•				•	•	•	•	•	•						
ROHRflex PU												•	•		•	•	•						
ROHRflex PA 6-HT								•				•	•				•						•
FLEXAzip												•					•	•					
ROHRflex MULTI - PA 6									•			•	•	•	•	•	•						
SPR-AS									•			•	•	•	•	•	•			•	•		
SPR-VA												•	•	•	•	•	•			•	•	•	•
SPR-EDU-AS									•			•	•	•	•	•	•				•		
FLEXAgraff-AS									•			•	•	•	•	•	•			•	•		•
FLEXAgraff-VA												•	•	•	•	•	•			•	•		•
FLEXAgraff-CU-AS									•		•	•	•	•	•	•	•				•	•	
SPR-PVC-AS									•			•	•		•	•	•			•			
SPR-PA									•		•	•	•	•	•	•	•			•			
SPR-PU-AS									•			•	•	•	•	•	•						
FLEXAgraff-PU-AS									•		•	•	•	•	•	•	•						
FLEXAgraff-SI-ASF									•			•	•	•	•	•	•						•
FLEXAgraff-CU-PU-AS									•		•	•	•	•	•	•	•					•	
LIQUID-TIGHT-EF									•			•	•		•	•	•						
LIQUID-TIGHT-UL-CSA												•	•		•	•	•						
AIRflex-KUW-PVC-AS									•	•		•	•		•	•	•			•			
AIRflex-KUW-PU-AS									•			•	•		•	•	•			•			
AIRflex-GRS										•		•	•		•	•	•			•			
AGROflex PA		•										•	•	•	•	•	•						
AGROflex PET	HL3	•	•		•							•	•	•	•	•	•						
HG-CU												•	•	•	•	•	•					•	
PS-VA												•	•				•	•					•





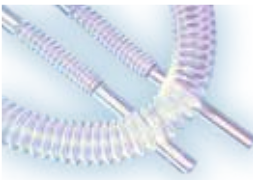
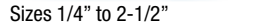
Typical Image	Specification	Material	Product Description & Sizes
 <p><b>Heatshrink</b></p> 	AMS-DTL-23053/11A, Class 1	FEP	1.3/1 Heat Shrink, HS1.3FEP Sizes 3/8" to 1-1/2"; AWG 24 - AWG 0
	AMS-DTL-23053/11A, Class 2	FEP	1.67/1 Heat Shrink, HS1.6FEP Sizes 3/32" to 2"
	AMS-DTL-23053/12A, Class 1	PTFE	2:1 Heat Shrink - Industrial Wall, HS2TFI Sizes 1/8" to 1"
	AMS-DTL-23053/12A, Class 2 AMS 3586	PTFE	2:1 Heat Shrink - Fractional & Spaghetti, Standard Wall, HS2TFS Sizes 1/8" to 1"; AWG 24 - AWG 0
	AMS-DTL-23053/12A, Class 3 AMS 3585	PTFE	2:1 Heat Shrink - Fractional and Spaghetti, Thin Wall, HS2TFT Sizes 1/8" to 1"; AWG 30 - AWG 0
	AMS-DTL-23053/12A, Class 4	PTFE	2:1 Heat Shrink - Fractional and Spaghetti, Light Wall, HS2TFL Sizes 1/8" to 5/16"; AWG 24 - AWG 0
	AMS-DTL-23053/12A, Class 5 AMS 3584A	PTFE	4:1 Heat Shrink, HS4TF Sizes 5/64" to 1-1/4"
	AMS-DTL-23053/14A, Class 1	ETFE	1.5/1 Heat Shrink, HS1.5 Sizes 3/32" to 1-1/2"



 <p><b>Convoluted</b></p> 	SAE AS81914/1	PTFE	Convoluted, Standard Convolution, 81914/1 Sizes 3/16" to 2"; Natural or Black
	SAE AS81914/2	PTFE	Convoluted, Close Convolution, 81914/2 Sizes 3/16" to 2"; Natural or Black
	SAE AS81914/3	FEP	Convoluted, Standard Convolution, 81914/3 Sizes 3/16" to 2"; Natural or Black
	SAE AS81914/4	FEP	Convoluted, Close Convolution, 81914/4 Sizes 3/16" to 2"; Natural or Black
	SAE AS81914/5	ETFE	Convoluted, Close Convolution, 81914/5 Sizes 3/16" to 2"; Natural or Black
	SAE AS81914/6	ETFE	Convoluted, Standard Convolution, 81914/6 Sizes 3/16" to 2"; Natural or Black



 <p><b>Smoothbore</b></p> 	AMS 3653E	PTFE	All PTFE products
	MIL-DTL-27267C	PTFE	PTFE Conductive Tubing Sizes 1/8" to 4"; AWG 32 - AWG 0
	AMS 3655B	PTFE	PTFE Thin Wall Fractional & Spaghetti Tubing, TFT Sizes 1/8" to 3/4"; AWG 32 - AWG 0
	AMS 3654A	PTFE	PTFE Light Wall Fractional & Spaghetti Tubing, TFL Sizes 1/8" to 1/2"; AWG 32 - AWG 0
	MIL-I-22129C AMS 3653E	PTFE	PTFE Standard Wall Tubing, TFS Sizes 1/8" to 1"; AWG 30 - AWG 0
	A-A-59602	PTFE	PTFE Spiral Cut Cable Wrap, TSWTF Sizes 1/8" to 1"
	AMS 3653E	PTFE	PTFE Beading, TFB Sizes 0.015" to 0.188"

<p><b>Corrugated</b></p> 	FEP	ASTM D3296-03
		
	Sizes 1/4" to 2-1/2"	

For technical information on these products, download Catalog 4150-55 at [www.parker.com/pfd](http://www.parker.com/pfd) and choose the literature tab