Smart[®] Tie



Smart[®] Tie incorporates the High Strength Tooth Feature of the Smart[®] Band Hybrid and Compact and creates the strongest Polymer Cable Tie in the World.

Smart® Tie is a patented heavy duty polymer tie wrap, able to withstand system loads in excess of 1200kgf.* It has the advantage of being manufactured from a range of high temperature polymers, giving it superior chemical and temperature resistance up to 175°C*.

Lightweight and very easy to use the Smart[®] Tie has become the ideal downhole cable tie solution and compatibility with the Smart® Protector provides a complete solution for many down-hole applications. The **Smart® Tie** is also used widely in offshore applications such as Cable Protection and can be manufactured from long-life PA12.

*Depending on material choice.

Key Features

- High temperature resistance up to 175°C (347°F)
- High strength up to 1223kgf (2695lbf)
- Safe and very easy to fit
- High speed installation
- 100% recyclable
- Non-corrosive
- Long life materials
- Suitable for divers

19mm (³ /4 Inch)				20mm (³ /4 inch <i>)</i>				32mm (1 '/41nch)									
Performance & Material																	
System Dimensions			Max System Strength		Min Diameter		Max Temp Resistance*		Flammability	Gas Resistance							
mm	in	Material	kgf	lbf	mm	in	°C	۴F		CBM Coal Seam Gas	H ₂ S Sour Gas						
20	34	PA66	513	1128	60	2.36	125	260	V-2	?	?						
	34	PK	565	1220	60	2.36	125	257	HB	Good	Good						
20		PA12	414	911	60	2.36	100	212	HB	Fair	Fair						
				PPS	514	1130	60	2.36	175	347	V-0	Very Good	Very Good				
32	1¼							РК	1270	2800	60	2.36	125	257	HB	Good	Good
		PA12	984	2169	60	2.36	100	212	HB	Fair	Fair						
		PPS	1223	2695	60	2.36	175	347	V-0	Very Good	Very Good						
fe expecta	ancy is depe	ndant on the worki	ng temperatu	re. Refer to th	e Smart Prod	ucts Technical	Booklet for I	Downhole Use	1								

		Dimensions, Pa	art Numl	oers & P	ackagi	ng					
		System	Band Dimensions								
imer	nsions	HCL Part No	Maximur	n Length	Band	Width	Band Thickness	Head Width			
m	in		mm	in	mm	in	mm/in	mm/in			

Dimensions		HCL Part No	Maximum Length		Band Width		Band Thickness	Head Width	Head Height
mm	in		mm	in	mm	in	mm/in	mm/in	mm/in
20	34	ST-20-600	620.0	24.41	20	0.79	3.6/0.14	35.0/1.38	12.0/0.47
		ST-20-750	770.0	30.31					
32	1¼	ST-32-550	573.0	22.56	32	1.26	4.6/0.18	50.0/1.97	20.0/0.79
		ST-32-850	873.0	34.37					

Tool Options & Retention

	Sj	stem	Ν	/in Retention	1°				
Dimensions		Tool	N	1	lbf	Speed of Installation	Tool Type	Tension Control	
mm	in	1001	N	kgf	TOT				
	34	SM-FT-1000-20ST	1500	153	337	20 secs	Manual	Torque Wrench	
20		SM-FT-2000-19	1500	153	337	10 secs	Manual	Hand	
		SM-FT-3000-20ST	1500	153	337	5 secs	Pneumatic	Air Regulator	
	1¼	SM-FT-1000-32ST	4000	408	899	20 secs	Manual	Torque Wrench	
32		SM-FT-2000-32	3700	377	832	10 secs	Manual	Hand	
		SM-FT-3000-32ST	4000	408	899	5 secs	Pneumatic	Air Regulator	

e refer to Technical Booklets for more inform

