

TEMPER-GRIP^{NEW} POWER CONTACTS

MIL-DTL-38999 / EN3645

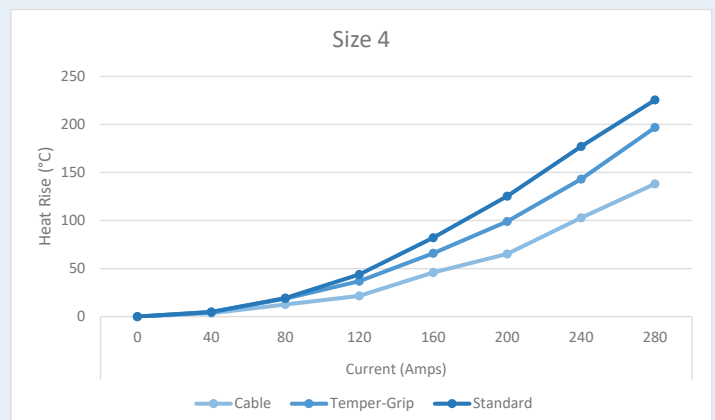
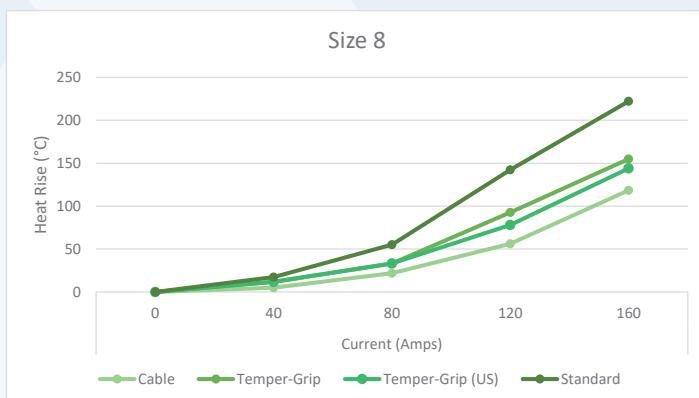
Description

Amphenol Socapex Temper-Grip contact series is designed for use in high-current and high-temperature for applications and is available for most Amphenol connectors. Temper-Grip contacts can increase allowed current by up to 40 percent⁽¹⁾, allowing you to increase the admissible current of your system by keeping connector size reasonable. Temper-Grip contacts will far outlast the temperature extremes of the standard connectors they can go into and are perfect for any high-temperature custom connector applications. Contact Amphenol Socapex for any connector applications exceeding 200°C (392 °F).

Main Features

- Napkin-Ring technology to prevent the contact lines from relaxing at higher temperatures and maintaining an optimized true contact in all situations to decrease resistance
- Hooded and not hooded version available upon request
- Several termination available upon request
- Standard crimp tool
- High-current pin option available

Contact Heat Rise



⁽¹⁾ High-current pin configuration. For reference only.

Markets & Applications



C&ISR



Navy



Ground Vehicle



Space



Commercial Air

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Performances

Performance	Description	Output data	
		T8	T4
Electrical	Contact resistance at rated current	Initially : <2mΩ After tests: <3mΩ @200°C : <3.4mΩ	
	Electrical overload	92A for 40s 460A for 0,6s	160A for 40s 800A or 0,6s
Environmental	Temperature range	-65°C - +200°C	
	Salt Mist	48Hrs	
	Shock As per EN2591-402	method A - 300g _n - 3ms	method A - 300g _n - 3ms
	Sinusoidal and random vibration As per EN2591-403	@ temperature (-65°C, ambient, 200°C) Method A (Sinus)- 12h per axis Method B (Random) - Figure 3, table 2 Level J Method C (random) - EN3645 profile	
	Mechanical endurance	500 cycles	

Part Numbers

	Contact Size	Specific	Amphenol P/N	Crimping Tool				
				Automatic tool M22520/23-01		Manual tool		
				Die Set	Locator	Tool	Locator	Selector
Pin Standard	8		900197	M22520/23-02	* See TR 4831	M300BT	SP593	4
	8	AS39029 mating end	612793	M22520/23-02	* See TR 4831	M300BT	SP593	4
	8	21-48 connector	900198	M22520/23-02	* See TR 4831	M300BT	SP593	4
	4		900007	WA23-04	WA23-584L	D31	809948	
Pin High-Current	8		612579	M22520/23-02	* See TR 4831	M300BT	SP593	4
	8	AS39029 mating end	612794	M22520/23-02	* See TR 4831	M300BT	SP593	4
	8	21-48 connector	612795	M22520/23-02	* See TR 4831	M300BT	SP593	4
	4		612559	WA23-04	WA23-584L	D31	809948	
Temper-Grip Socket	8		612580	M22520/23-02	WA23-585L	M300BT	SP593	4
	8	AS39029 mating end	612755	M22520/23-02	WA23-585L	M300BT	SP593	4
	4		612560	WA23-04	WA23-584L	D31	809948	

ASD-STAN TR 4831 : Aerospace series Applicable crimping tools for electrical contact product standards EN 3155-065 and EN 3155-083.