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DIN signal male connector with special contacts RoHS compliant General information <table><tr><td>Design</td><td>IEC 60603-2</td><td>types: M male</td></tr><tr><td>No. of contacts</td><td colspan="2">78+2, 60+4, 42+6, 24+8, 6+10</td></tr><tr><td>Contact spacing</td><td>2,54 mm for signal contacts</td><td>7,62 mm for special contacts</td></tr><tr><td>Test voltage</td><td colspan="2">1000V</td></tr><tr><td>Contact resistance</td><td colspan="2">max. 20mOhm</td></tr><tr><td>Insulation resistance</td><td colspan="2">min. 10¹²Ohm</td></tr><tr><td>Working current</td><td colspan="2">2 A@20°C (see derating diagram) for signal contacts for special contacts refer to corresponding data sheet</td></tr><tr><td>Temperature range</td><td colspan="2">-55°C ... +125°C</td></tr><tr><td>Termination technology</td><td colspan="2">solder pins</td></tr><tr><td>Clearance & creepage distance</td><td colspan="2">min. 1,2 mm</td></tr><tr><td rowspan="3">Insertion and withdrawal force</td><td>6pol. max. 6N</td><td>60pol. max. 57N</td></tr><tr><td>24pol. max. 23N</td><td>78pol. max. 74N</td></tr><tr><td>42pol. max. 40N</td><td></td></tr><tr><td rowspan="3">Mating cycles</td><td colspan="2">- PL1 acc. to IEC 60603-2 => 500 mating cycles</td></tr><tr><td colspan="2">- PL2 acc. to IEC 60603-2 => 400 mating cycles</td></tr><tr><td colspan="2">- PL3 acc. to IEC 60603-2 => 50 mating cycles</td></tr><tr><td>UL file</td><td colspan="2">E102079</td></tr><tr><td>RoHS - compliant</td><td colspan="2">Yes</td></tr><tr><td>Leadfree</td><td colspan="2">Yes</td></tr><tr><td>Hot plugging</td><td colspan="2">No</td></tr></table> Insulator material <table><tr><td>Material</td><td colspan="2">PBT (thermoplastics, glass fiber reinforcement 30%)</td></tr><tr><td>Colour</td><td colspan="2">RAL 7032 (grey)</td></tr><tr><td>UL classification</td><td colspan="2">UL 94-V0</td></tr><tr><td>Material group acc. to IEC 60664-1</td><td colspan="2">IIIa (175 ≤ CTI < 400)</td></tr><tr><td>NFF classification</td><td colspan="2">I3, F4</td></tr></table> Contact material <table><tr><td>Contact material</td><td colspan="2">Copper alloy</td></tr><tr><td>Plating termination zone</td><td colspan="2">Sn over Ni</td></tr><tr><td>Plating contact zone</td><td colspan="2">Au over PdNi over Ni</td></tr></table> Derating diagram acc. to IEC 60512-5 (Current carrying capacity) The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature. Control and test procedures according to DIN IEC 60512-5				Design	IEC 60603-2	types: M male	No. of contacts	78+2, 60+4, 42+6, 24+8, 6+10		Contact spacing	2,54 mm for signal contacts	7,62 mm for special contacts	Test voltage	1000V		Contact resistance	max. 20mOhm		Insulation resistance	min. 10 ¹² Ohm		Working current	2 A@20°C (see derating diagram) for signal contacts for special contacts refer to corresponding data sheet		Temperature range	-55°C ... +125°C		Termination technology	solder pins		Clearance & creepage distance	min. 1,2 mm		Insertion and withdrawal force	6pol. max. 6N	60pol. max. 57N	24pol. max. 23N	78pol. max. 74N	42pol. max. 40N		Mating cycles	- PL1 acc. to IEC 60603-2 => 500 mating cycles		- PL2 acc. to IEC 60603-2 => 400 mating cycles		- PL3 acc. to IEC 60603-2 => 50 mating cycles		UL file	E102079		RoHS - compliant	Yes		Leadfree	Yes		Hot plugging	No		Material	PBT (thermoplastics, glass fiber reinforcement 30%)		Colour	RAL 7032 (grey)		UL classification	UL 94-V0		Material group acc. to IEC 60664-1	IIIa (175 ≤ CTI < 400)		NFF classification	I3, F4		Contact material	Copper alloy		Plating termination zone	Sn over Ni		Plating contact zone	Au over PdNi over Ni	
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