General information  Design No. of contacts Contact spacing Test voltage Contact resistance Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force  Mating cycles  ROHS - compliant Leadfree Hot plugging  Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material	IEC 60603-2   15   5,08 mm / 6,5 mm between the rows   3100 V   max. 8m0hm   min. 10"0hm   15A at 20°C (see derating diagram)   -55°C +125°C   faston   min. 4,5 mm   min. 8,0 mm   15pole max. 90N   - PL1 acc. to IEC 60603-2 => - PL2 acc. to IEC 60603-2 => - PL3 acc. to IEC 60603-2 => Yes   Yes   Yes   No	types: H female	RoHS	Type lifetin intern volta In sy:	we H standard contacts have a silver plated surface. This precious metal has excellent conductive properties. In the course of a certime, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is particularly the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low currages small changes to the transmitted signal may be encountered. Systems where such a change to the transmitted signal could lead to faulty functions and also in extremely aggressive environme sommend the use of gold plated contacts.  Ow is a table derived from actual experiences.  Silver  V  Gold  5 mA	artly rents or
General information  Design No. of contacts Contact spacing Test voltage Contact resistance Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force  Mating cycles  RoHS - compliant Leadfree Hot plugging  Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material	IEC 60603-2  15  5,08 mm / 6,5 mm between the rows  3100 V  max. 8m0hm  min. 10"0hm  15A at 20°C (see derating diagram)  -55°C +125°C  faston  min. 4,5 mm  min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  Yes  Yes	types: H female  500 mating cycles 400 mating cycles	compliant	Type lifetii interi volta In sy: recom Below	time, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is particularly the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low curriages small changes to the transmitted signal may be encountered.  Systems where such a change to the transmitted signal could lead to faulty functions and also in extremely aggressive environme ommend the use of gold plated contacts.  Ow is a table derived from actual experiences.  Silver  V  Gold	artly rents or
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No. of contacts Contact spacing Test voltage Contact resistance Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force Mating cycles RoHS - compliant Leadfree Hot plugging Insulator material Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification Contact material	15 5,08 mm / 6,5 mm between the rows 3100 V max. 8mOhm min. 10"Ohm 15A at 20°C (see derating diagram) -55°C +125°C faston min. 4,5 mm min. 8,0 mm 15pole max. 90N - PL1 acc. to IEC 60603-2 => - PL2 acc. to IEC 60603-2 => Yes Yes	500 mating cycles 400 mating cycles		Below	ow is a table derived from actual experiences.  Silver  Gold	
Contact spacing Test voltage Contact resistance Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force  Mating cycles  RoHS - compliant Leadfree Hot plugging  Insulator material  Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material	5,08 mm / 6,5 mm between the rows  3100 V  max. 8m0hm  min. 10"0hm  15A at 20°C (see derating diagram)  -55°C +125°C  faston  min. 4,5 mm  min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  - PL3 acc. to IEC 60603-2 =>  Yes  Yes	500 mating cycles 400 mating cycles			Silver	
Test voltage Contact resistance Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force Mating cycles RoHS - compliant Leadfree Hot plugging Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification Contact material	3100 V  max. 8m0hm  min. 10"0hm  15A at 20°C (see derating diagram)  -55°C +125°C  faston  min. 4,5 mm  min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  Yes  Yes	500 mating cycles 400 mating cycles		5\	V Gold	
Contact resistance Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force  Mating cycles RoHS - compliant Leadfree Hot plugging Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification Contact material	max. 8m0hm min. 10"0hm  15A at 20°C (see derating diagram)  -55°C +125°C faston min. 4,5 mm min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  Yes  Yes	400 mating cycles		5\	V Gold	
Insulation resistance Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force  Mating cycles  RoHS - compliant Leadfree Hot plugging  Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1  NFF classification  Contact material	min. 10"0hm  15A at 20°C (see derating diagram)  -55°C +125°C  faston  min. 4,5 mm  min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  Yes  Yes	400 mating cycles		5\	V Gold	
Working current Temperature range Termination technology Clearance Creepage Insertion and withdrawal force Mating cycles RoHS - compliant Leadfree Hot plugging Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification Contact material	15A at 20°C (see derating diagram)  -55°C +125°C  faston  min. 4,5 mm  min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  Yes  Yes	400 mating cycles		5\	V Gold	
Temperature range Termination technology Clearance Creepage Insertion and withdrawal force  Mating cycles  RoHS - compliant Leadfree Hot plugging  Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material	-55°C +125°C faston min. 4,5 mm min. 8,0 mm  15pole max. 90N - PL1 acc. to IEC 60603-2 => - PL2 acc. to IEC 60603-2 => - PL3 acc. to IEC 60603-2 => Yes Yes	400 mating cycles		5\	Gold	
Clearance Creepage Insertion and withdrawal force Mating cycles RoHS - compliant Leadfree Hot plugging Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification Contact material	min. 4,5 mm  min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  - PL3 acc. to IEC 60603-2 =>  Yes  Yes	400 mating cycles			<b>—</b>	
Creepage Insertion and withdrawal force  Mating cycles  RoHS - compliant Leadfree Hot plugging  Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material	min. 8,0 mm  15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  - PL3 acc. to IEC 60603-2 =>  Yes  Yes	400 mating cycles			5 mA	
Insertion and withdrawal force  Mating cycles  RoHS - compliant  Leadfree  Hot plugging  Insulator material  Material  Colour  UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material	15pole max. 90N  - PL1 acc. to IEC 60603-2 =>  - PL2 acc. to IEC 60603-2 =>  - PL3 acc. to IEC 60603-2 =>  Yes  Yes	400 mating cycles			5 mA	
Mating cycles  RoHS - compliant  Leadfree  Hot plugging  Insulator material  Material  Colour  UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material	- PL1 acc. to IEC 60603-2 => - PL2 acc. to IEC 60603-2 => - PL3 acc. to IEC 60603-2 => Yes Yes	400 mating cycles				
RoHS - compliant  Leadfree  Hot plugging  Insulator material  Material  Colour  UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material	- PL2 acc. to IEC 60603-2 => - PL3 acc. to IEC 60603-2 => Yes Yes	400 mating cycles				
RoHS - compliant  Leadfree  Hot plugging  Insulator material  Material  Colour  UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material	- PL3 acc. to IEC 60603-2 => Yes Yes					
Leadfree Hot plugging Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification Contact material	Yes Yes			——I		
Insulator material  Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material	<del></del>		•			
Insulator material  Material  Colour  UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material	No					
Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material						
Material Colour UL classification Material group acc. to IEC 60664-1 NFF classification  Contact material		<u>:</u>		<del> </del>		
Colour  UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material		-	<del>.</del>	<del> </del>		
UL classification  Material group acc. to IEC 60664-1  NFF classification  Contact material	PA (thermoplastics, glass fiber reinfo	orcement 25%)				
Material group acc. to IEC 60664-1 NFF classification Contact material	RAL 7035 (light grey)					
NFF classification  Contact material	UL 94-V0					
Contact material	II (400 <u>&lt;</u> CTI < 600)					
	12, F1					
	:	·		<del> </del>		
Contact material	:	<del>:</del>	÷			
	Copper alloy					
Plating termination zone	Ag or Au					
Plating contact zone	Ag or Au					
Derating diagram acc. to IEC 60512-5 (Cur	rent carrying capacity)	·	•			
The current carrying capacity is limited by temperature of materials for inserts and terminals.	y maximum contacts including	A 15				
The current capacity curve is valid for co interrupted current loaded contacts of co simultaneous power on all contacts is give	nnectors when	₹ 12				
the maximum temperature.		[V] Pood [V]		<u> </u>		
Control and test procedures according to DIN IEC 60512-5		Slectrical 9		$\vdash$	All Dimensions in mm Scale Free size tol.  Original Size DIN A3 1:1 Ref.  Sub. DS 09 06 212 09 01 / EC01557 / 28	<u> </u>
		Elec			All rights reserved Created by Inspected by Standardisation Date State	
		3		HARTI	HAGGMEYERE TADIE HOGEMANN 2017, 09-12 Final Re	elease
					Department EC PD - DE Title DIN power female connector NFF	Doc-Key / E
		0 20 40 6	0 80 100 120 °	c HARTI	TING ELECTIVINES GIIDH	100580728/UGE 500000076069
			Temperature [°C]		Type DS Number 09062120901	Rev. A
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