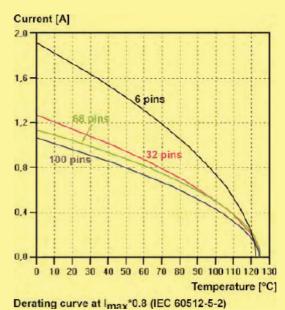
*har*flex®

Number of contacts	6, 8, 10 96, 98, 100	Current carrying cap
Connector pitch	1.27 mm x 1.27 mm [0.050" x 0.050"]	The current carrying capa materials for inserts and c The current capacity-cur current-loaded contacts o
Clearance and creepage distance Board connectors (SMT)	min. 0.4 mm	all contacts is given, withc Control and test procedure
Cable connectors (IDC) AWG 30/1 (solid) AWG 30/7 (stranded)	min. 0.35 mm min. 0.4 mm	Current [A]
Test voltage U _{r.m.s.} Contact resistance	500 V < 25 mΩ	1,6
Insulation resistance	> 10 GΩ	1,2 58.pjn
Insertion and withdrawal force	approx. 0.5 N / contact	
Working temperature range The higher temperature limit includes the local ambient and heating effects of the contacts	– 55 °C + 125 °C	0,8 0,4
under load Temperature during reflow soldering (acc. to ECA/IPC/JEDEC J-STD-075 Level PSL R0)	min. 150 s > 217 °C min. 30 s > 240 °C	0,0
Electrical termination	ONT (Outers Maurie Taskaslam)	Derating curve at
Board connectors Cable connectors	SMT (Surface Mount Technology) IDC (Insulation Displacement Connection)	Durability
Materials		Performance level 1 (re
Moulding material UL approval	LCP UL 94-V0	Initial 250 mating cycle
CTI value (Comparative Tracking Index)	175	using H ₂ S 10 ppb, NO Measurement of contac
Contacts base material	Copper alloy	cycles are subject to n visual inspection. Visua finish through to the bas
Contact surface		Part number definition:
Mating side Board connectors	Au over PdNi	Performance level 2
Cable connectors	(acc. performance level) Au over PdNi	Initial 125 mating cycles, 10 ppb, NO ₂ 200 ppb, Cl
Termination side	(acc. performance level)	contact resistance. The to measurement of con
Board connectors (SMT) Cable connectors (IDC)	Sn Sn	Visual inspection. No a the base material. No fu
Flat cable requirements for ID	OC connectors	Part number definition:
PVC flat cables:	AWG 30/1 (solid) AWG 30/7 (stranded)	Performance level S4
PTFE flat cables: Insulation diameter:	AWG 30/1 (solid) min. 0.55 mm - max. 0.75 mm	Defined contact surface
	min. 0.55 min - max. 0.75 mm	Part number definition:
Working current acc. to IEC 60512		
70 °C ambient temperature @ 80	% derating	
70 °C ambient temperature @ 80 6 pins 32 pins	% derating 1.2 A 0.8 A	
70 °C ambient temperature @ 80 6 pins	% derating 1.2 A	

rrent carrying capacity

current carrying capacity is limited by maximum temperature of erials for inserts and contacts including terminals.

current capacity-curve is valid for continuous, not interrupted ent-loaded contacts of connectors when simultaneous power on contacts is given, without exceeding the maximum temperature. trol and test procedures according to DIN IEC 60512.



rability

formance level 1 (recommended for majority of applications)

ial 250 mating cycles, 10 days gas test (25 °C/75 % r.h.) ng H_2S 10 ppb, NO₂ 200 ppb, CL₂ 10 ppb, SO₂ 200 ppb. asurement of contact resistance. The remaining 250 mating les are subject to measurement of contact resistance and al inspection. Visual inspection. No abrasion of the contact sh through to the base material. No functional impairment.

15

formance level 2

al 125 mating cycles, 4 days gas test (25 °C/75% r.h.) using H_2S opb, NO₂ 200 ppb, CL₂ 10 ppb, SO₂ 200 ppb. Measurement of tact resistance. The remaining 125 mating cycles are subject measurement of contact resistance and visual inspection. ual inspection. No abrasion of the contact finish through to base material. No functional impairment.

15

formance level S4

ined contact surface of min. 0.06 µm Au over 0.7+0.2 µm PdNi.

5

6.

2...

har-flex