

Technical drawing of a 32-pin connector. The drawing includes three views: a top view, a side view, and a cross-sectional view.

Top View Dimensions:

- Overall width: 88 ± 0.1 (3.464)
- Pin pitch: $\phi 0.6 \pm 0.08$ (.024)
- Pin length: 95 max i (3.740 max)
- Pin diameter: $\phi 0.6 \pm 0.08$ (.024)
- Pin spacing: $32 \text{ } 30$
- Pin diameter: $\phi 2.8 \text{ mini}$ (.110)
- Pin length: $31 \times 2.54 = 78.74 \pm 0.06$ ($31 \times .100 = 3.100$)
- Pin length: $90 \pm 0.10 / -0.15$ (3.543)

Side View Dimensions:

- Overall height: 11.6 max (.457 max)
- Pin length: 85.2 ± 0.2 (3.354)
- Pin diameter: $\phi 2.8 \text{ mini}$ (.110)
- Pin length: 2.54 ± 0.06 (.100)
- Pin length: 1 ± 0.1 (.039)
- Pin length: 0.3 ± 0.1 (.012)

Cross-sectional View Dimensions:

- Pin diameter: $\phi 2.8 \text{ mini}$ (.110)
- Pin length: 8.6 max i
- Pin length: 4.8 ± 0.2
- Pin length: 3.189

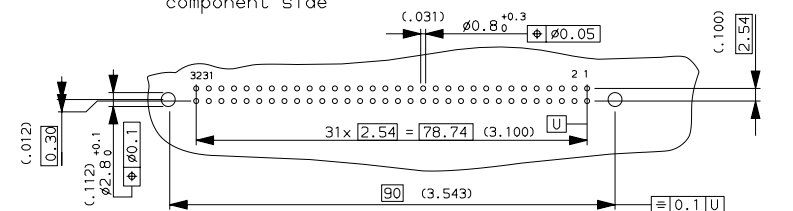
-Current at AMB.	1.5 A at 20° C / 1 A at 70° C
-I max	2A
-Contact resistance	<20mΩ according to DIN 41640 Teil 4 test 2a
-Insulation resistance	>10 ⁶ MΩ according to DIN 41640 teil 7 test 3a
-TEST VOLTAGE	according to DIN 41640 teil 21
contact/contact	1000V eff (0.5 mA / 50 Hz)
contact/ground	1550V eff (0.5 mA / 50 Hz)

-Retention force	≥20N (4.5 lb) per contact		
-Insertion force	32 Cts : ≤30N (6.8 lb) / 16 Cts : ≤15N (3.4 lb)		
-Withdrawal force	32 Cts : ≥5N (1.15 lb) / 16 Cts : ≥2.5N (0.56 lb)		
-Mechanical endurance	class 1	500 matings	unmatings according to DIN41640 teil 21
	class 2	400	" " " "
	class 3	50	" " " "
-Material insulator	Polyester thermoplastic UL94V0		
-Material contacts	Brass		
-Finishing contact surface	Gold over Nickel		
-Finishing termination	Tin Lead		
-Material and plating harpoon	Phosphor bronze - Tin Lead		
-Solderability	according to DIN 41640 teil 70 test 12a		
-Shock	≤40mm according to DIN 41640 Teil 14 test 6c		
-Vibration	class 1	10-2000Hz/20g according to DIN 41640 Teil 15	
	class 2	10-500Hz/5g " " " "	

-Climatic category	According to DIN 41612
-Corrosion	According to DIN 41612

PERFORMANCES AS PER DIN 41612

component side



PART NUMBER	8609			58				8-000-E1
PIN OUT								
row a		-		1	-	16		
rows a-b		-		2	-	32		
NUMBER OF CONTACTS								
TERMINATION								
L = 2.70 ±0.25 (.106)		-		-	-	24		
L = 4.65 ±0.25 (.183)		-		-	-	14		
OPTIONS								
no option		-		-	-	7		
with harpoons		-	for PCB thickness 1.6 mm			H		
		-	for PCB thickness 2.4 mm			A		
		-	for PCB thickness 3.2 mm			R		
PERFORMANCE CLASS								
DIN 41612 class 3		-		-	-	-	4	
DIN 41612 class 2		-		-	-	-	5	
DIN 41612 class 1		-		-	-	-	6	

a	27/10/97	-- creation	--
ISS	DATE	Latest modification by : --	MOD N°
Designed by: ROUILLARD date 27/10/97		Type of drawing:	CLIENT
TITLE : STRAIGHT MALE - STYLE Q			SHEET 1/1
SCALE: 1.5			
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A3	C-8609-0638		D90D001