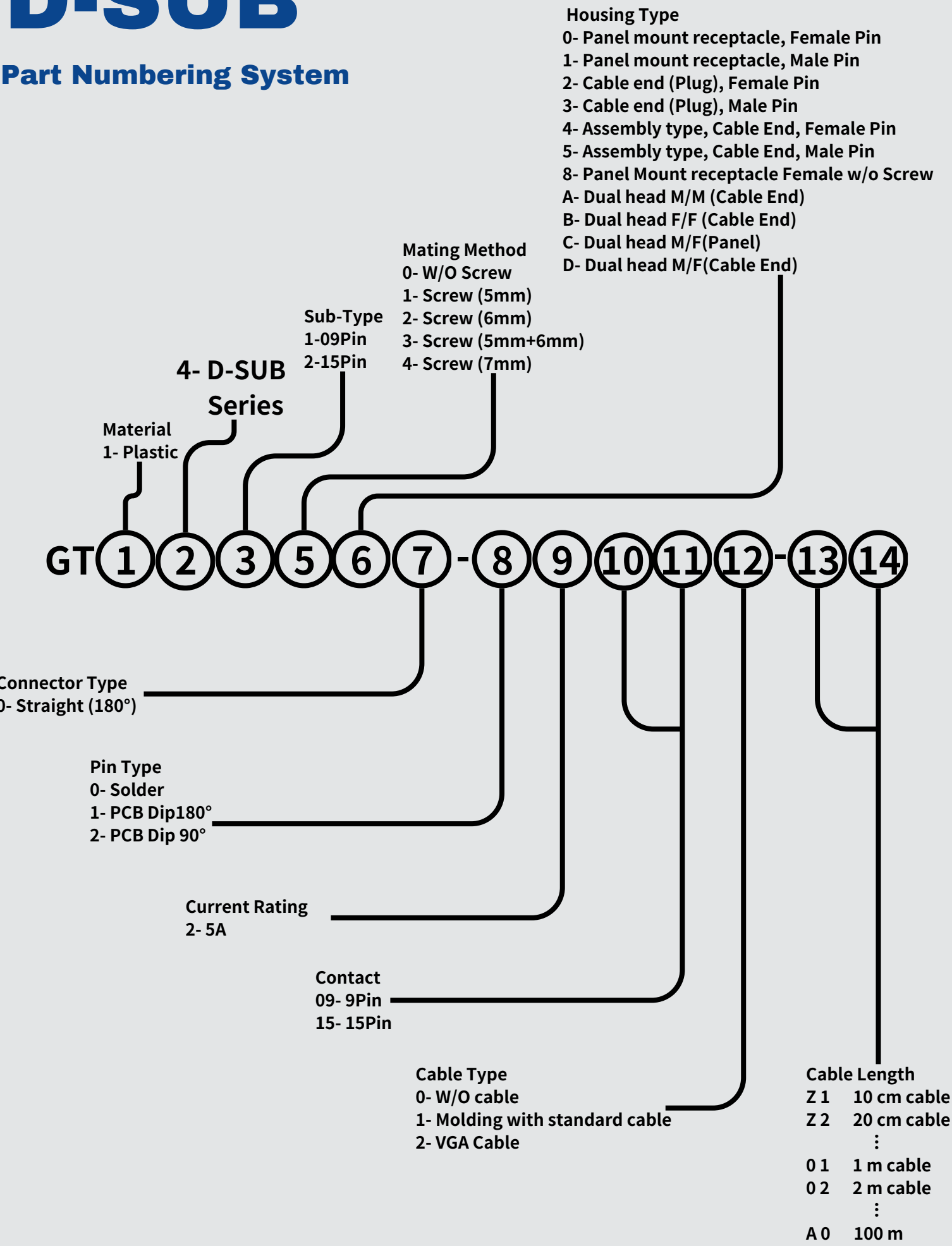


D-USB SERIES



D-SUB

Part Numbering System

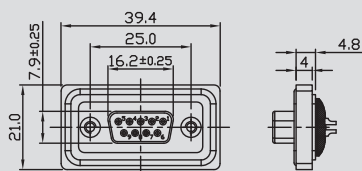


Specifications

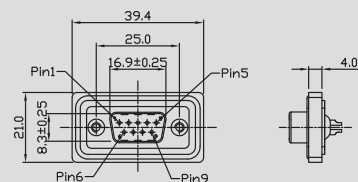
D-SUB 9 Pin / HD-SUB 15 Pin Engineering Specifications			
Specifications			
Current Rating		5.0A	
AWG Gauge		20 AWG~24 AWG	
Operation Temperature		With Cable -40°C / +85°C	
		Without Cable -40°C / +105°C	
IP Rating		Panel: IP68 / Cable End: IP67	
Product Technical Data			
Characteristics		Standard	Description
Visual and Dimensional Inspection		EIA 364-18	Must meet or exceed the requirements specified by the most current version of the D-SUB/HD-SUB Specification.
Insulation Resistance		EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage		EIA 364-20 or IEC 60512-4a	1000 V AC contact-to-contact, for 1min.
Contact Resistance		EIA 364-06 or IEC 60512-2b Method B	30mΩ at 10mA Max.
Pin Retention Force	D-SUB 9 Pin	EIA 364-35	0.8~2.45N
Pin Normal Force	HD-SUB 15 Pin	EIA 364-04	0.8~2.45N
Durability		EIA 364-09 or IEC 60512-9a	500 cycles insertion/extraction cycles at a maximum rate of 200 cycles per hour.
Cable Pull-Out		EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.

Product Technical Data		
Characteristics	Standard	Description
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated D-SUB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

D-SUB Panel Mount Female Screw



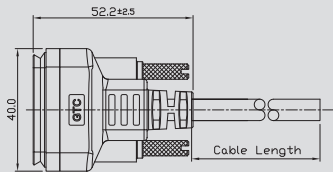
D-SUB Panel Mount Male Screw



P/N	Rated current (A)	Contacts	Screws
GT146100-02150	5	15	5mm
GT146200-02150	5	15	6mm
GT141300-02090	5	9	5&6mm
GT146300-02150	5	15	5&6mm

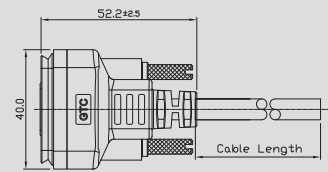
P/N	Rated current (A)	Contacts	Screws
GT141210-02090	5	9	6mm
GT141410-02090	5	9	7mm
GT141310-02090	5	9	5&6mm
GT146310-02150	5	15	5&6mm

D-SUB Cable End Female with Cable Screw



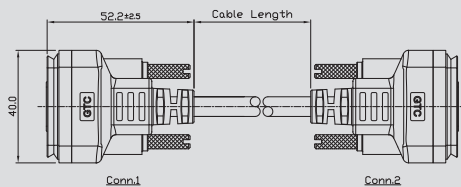
P/N	Rated current (A)	Contacts
GT141320-02091-XX	5	9
GT146320-02151-XX	5	15

D-SUB Cable End Male with Cable Screw



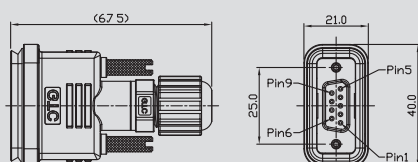
P/N	Rated current (A)	Contacts
GT141330-02091-XX	5	9
GT146330-02151-XX	5	15

D-SUB Cable End Twin-head Male/Male with Cable Screw



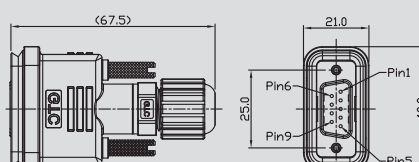
P/N	Rated current (A)	Contacts	Gender
GT1413A0-02091-XX	5	9	M/M
GT1413B0-02091-XX	5	9	F/F
GT1413D0-02091-XX	5	9	F/M

D-SUB Field Installable Cable End Female Solder

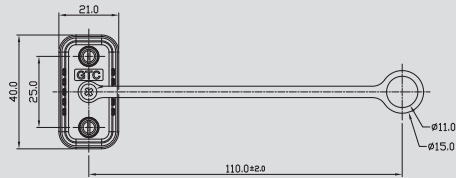


P/N	Rated current (A)	Contacts
GT141340-02090	5	9
GT146340-02150	5	15

D-SUB Field Installable Cable End Male Solder



P/N	Rated current (A)	Contacts
GT141350-02090	5	9
GT146350-02150	5	15

Cap Plastic for D-SUB Stainless Screw Panel

P/N	Mating Series No.
GT1C4140X2	GT141210-02090
	GT141410-02090
	GT141310-02090
	GT146310-02150
	GT146100-02150
	GT146200-02150
	GT141300-02090
	GT146300-02150



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