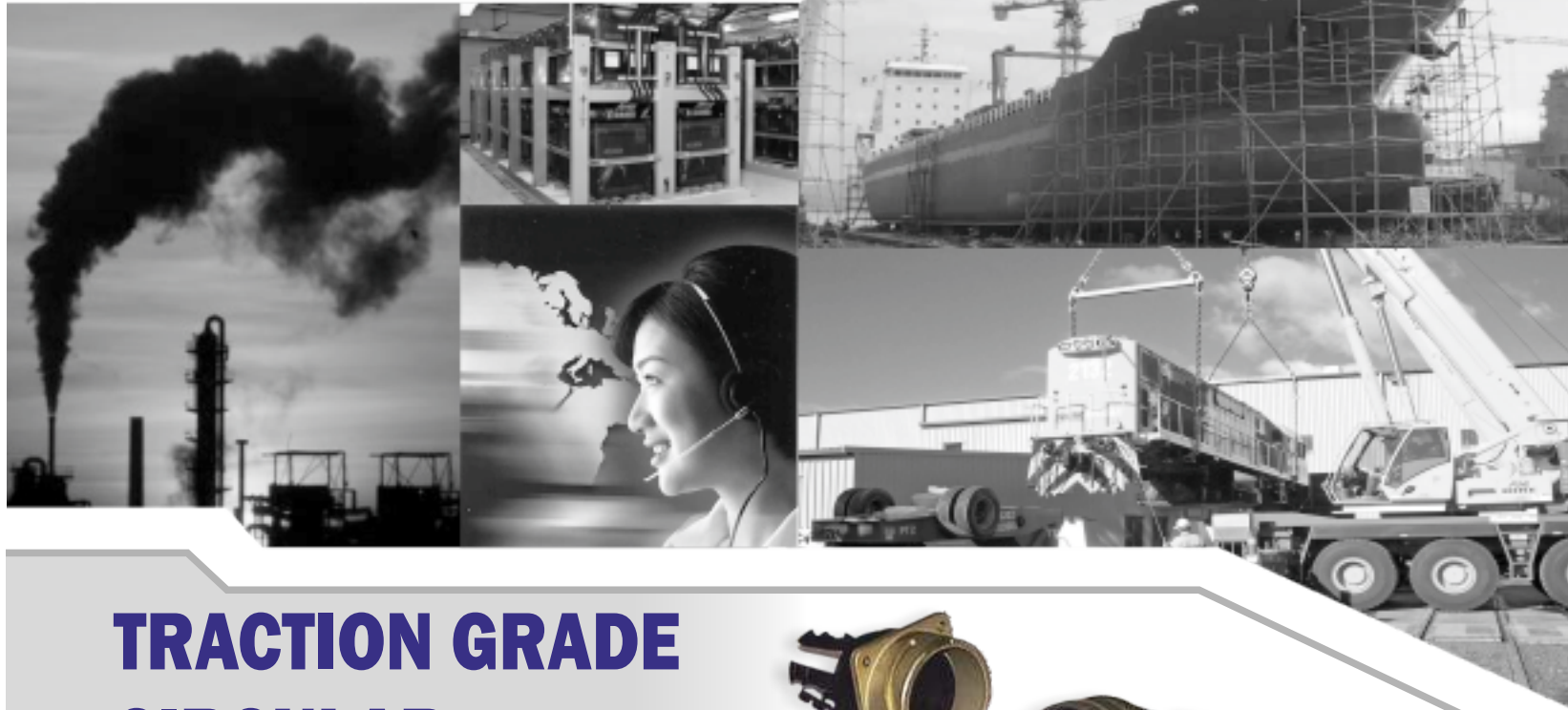




Autometers Alliance Ltd



TRACTION GRADE CIRCULAR CONNECTORS



Technical Features

- A positive, quick mating, 3-point bayonet coupling
- Insert arrangement for upto 61 contacts and upto 150A per contact rating
- Terminal cross section of 0.5 to 50 mm²
- Elastic insulators of Chloroprene, Silicon and Ethylene Acrylate for standard, high temperature and fire protection requirements, respectively
- Resistant to liquid fuels, lubricants and insulating oils etc.
- Robust mechanical construction
- Completely sealed to protect moisture condensation and flashover

Traction Grade Circular Connectors for both indoor and outdoor use in railway applications.

Compliant Standards: MIL-C-5015 and VG95234 standards.

Applications

Ideal for industrial environment that requires utmost environmental reliability and ease of mating and unmating. These connectors are used in power generators, battery systems, ships, telecommunications, railway equipment, industrial machinery, engines and the like.

Technical Specifications

Features	Contacts Size			
	0	8H	12	16
Contact material	Copper alloy			
Surface plating in contact area	x=Standard		o=on request	
Gold plating: 0.5μ Au over 2.5μ Ni			x	x
Silver plating : 3.5μ Ag	x	x	o	o
Potential drop over contact area at nominal current	[mV] ≤ 10	≤ 12	≤ 20	≤ 21
Nominal current	[A] 150	46	23	13
Maximum current transient	[A] 245	73	41	22
Test current	[A] 200	60	35	20
Contact extraction force (min)	[N] 8.5	3.0	1.5	1.0
Terminal cross-section	[mm ²] 16-50	2.5-10	0.5-6	0.5-1.5

B. Insulators

Material		Service temperature
Chloroprene	(CR)	-55° to +125°C
Silicone	(VMQ)	-55° to +180°C
Ethylene acrylate elastomer	(EAM)	-55° to +125°C

C. Electrical data

Voltage Class	Service Voltage DC (V)	Service Voltage AC (V)	Test Voltage AC(V)	Flash Over Voltage AC (V)
Inst	250	200	1000	1400
A	700	500	2000	2800
D	1250	900	2800	3600
E	1750	1250	3500	4500
B	2450	1750	4500	5700
C	4200	3000	7000	8500

Optional: Accessories like crimping tools, extraction/insertion tools, contact pins and sockets are also readily available.

