

Planoflex Flat Festoon Crane Cables

SIEMENS
Flexible cables



Application

- Festoon gantry cranes
- Wharf & port facilities
- Mine sites & cold stores
- Container Cranes
- Timber & refuse cranes
- Rubber tyred gantries
- Trippers
- Steelworks & ladle cranes

Design

PLANOFLEX cables consist of extra finely stranded copper conductors with a short length of lay to provide a high degree of flexibility.

PROTOLON elastomer R-EP-90 insulation provides improved current carrying capacities and the cable is sheathed overall with HD-PCP-90 Polychloroprene which is oil resistant and flame retardant, remaining flexible at sub-zero temperatures, and withstands extremely high ambients. The construction is in accordance with the Australian Standards AS 1125, AS 3116, AS 3191 and DIN VDE 0250 pt 809. PLANOFLEX is UL approved, Certificate File No. E113313.

Minimum Bending Radii

The recommended minimum bending radii is dependant on the cable thickness and should be observed to ensure operating reliability.

- cables up to 8mm thick = 3 x cable thickness
- cables up to 12mm thick = 4 x cable thickness
- cables above 12mm thick= 5 x cable thickness

Operating Temperature

- Minimum permissible ambient temperature -55°C
- Maximum permissible conductor temperature 90°C
- Maximum permissible short circuit temperature 250°C
- Minimum ambient temperature for optimum full flexible operation -35°C

Tensile Strength

The maximum allowable tensile stress is 15N/mm². This ensures no conductor damage will occur in operation.

Voltage Rating

- Rated Voltage:
 - (multicore control) U₀/U = 380/660V
 - (power) U₀/U = 0.6/1kV
- AC test voltage = 2kV

*The cable is designated 300/500V in accordance with VDE/IEC and meets or exceeds the Australian Standard AS 3116 for the stated voltage ratings.

	No of cores x conductor size	Part no.	Approx no of stands x Max strand diameter	Diameter of Bare Conductor	Cable Thickness Min mm	Dimensions x Width Max mm	Cable Weight Kg/km	Current carrying capacity in free air A
IND Screened	4 x 1.5mm ²	5DG5 880	85 x 0.16mm	1.7mm	6.9 x 18.5	7.4 x 19.5	250	20
	12 x 1.5mm ²	5DG5 888	85 x 0.16mm	1.7mm	7.5 x 52.0	8.0 x 56	820	20
Control	8 x 1.5mm ²	5DG5 715	85 x 0.16mm	1.7mm	5.2 x 27.5	6.2 x 30.5	295	20
	12 x 1.5mm ²	5DG5 718	85 x 0.16mm	1.7mm	5.8 x 41.0	7.0 x 45.0	480	20
	12 x 2.5mm ²	5DG5 728	140 x 0.16mm	2.5mm	7.2 x 53.5	8.4 x 58.5	790	28
	4 x 2.5mm ²	5DG5 721	140 x 0.16mm	2.5mm	6.6 x 19.0	7.8 x 21.5	255	28
Power	4 x 4mm ²	5DG5 731	290 x 0.16mm	2.8mm	8.0 x 23.0	9.4 x 26.0	380	38
	4 x 6mm ²	5DG5 741	190 x 0.21mm	3.5mm	8.8 x 25.5	10.0 x 28.5	490	48
	4 x 10mm ²	5DG5 765	320 x 0.21mm	4.5mm	10.0 x 31.5	12.0 x 35.0	750	66
	4 x 16mm ²	5DG5 766	475 x 0.20mm	5.7mm	12.0 x 37.0	14.0 x 41.0	1080	88
	4 x 25mm ²	5DG5 767	741 x 0.20mm	7.1mm	13.5 x 44.5	16.0 x 49.0	1590	120