

EVA 125 FLEX

High Temperature 125°C Flame retardant
Halogen free flexible cables

APPLICATION

- ~ Switchboard cabling
- ~ Coil & transformer wiring
- ~ High thermal stress resistant
- ~ Chemical & ceramic industry

TEMPERATURE

- Minimum and maximum permissible ambient temperature -40°C to +110°C
- Maximum permissible conductor temperature 125°C

CURRENT CARRYING CAPACITY

Current ratings are based on a continuous operating ambient temperature of 40°C. At other temperatures these values

°C	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Factor	1.26	1.20	1.15	1.1	1.05	1	0.94	0.88	0.81	0.73	0.65	0.57	0.47	0.34

TENSILE STRENGTH

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

CORE COLOUR IDENTIFICATION

The cable is available in either black (standard) or orange (on request).

DESIGN

EVA 125 is a flexible elastomer insulated cable with improved thermal characteristics due to special cross linking together with an excellent resistance to oils, chemicals, abrasion and mechanical damage.

EVA 125 Flex cables consist of finely stranded tinned copper conductors laid up to provide a flexible design with a specially compounded R-EVA-125 synthetic rubber insulation for operation in elevated ambient temperatures.

The cable is in accordance with the Australian Standards AS 1125, AS 3116 and DIN VDE 0282 pt 501 for H07G

The special Ethylene Vinyl Acetate compound is halogen free and exhibits low smoke generation in the event of fire and has a high resistance to absorption of oils and grease.

MINIMUM BENDING RADII

The following minimum recommended bending radii should be observed to ensure operating reliability.

- For fixed installation 4 x cable diameter
- When freely flexing 5 x cable diameter

VOLTAGE RATING

- Rated Voltage: U_o/U = 0.6/1kV
- Maximum operating voltages in:
 - 3 phase AC operation U_o/U = 0.7/1.15kV
 - DC operation U_o/U = 0.9/1.73kV
- AC test voltage = 2.5kV

The cable is designated 450/750V in accordance with VDE/IEC and meets or exceeds the Australian Standard AS3116

No. of Cores x Conductor Size	Part No.	Approx No. of Strands x Max. Stand Dia	Diameter of bare conductor	Cable Overall Diameter		Cable Weight	Current Carrying Capacity
				min. mm	max mm		
1 x 0.75	5DR7 051-5	24 x 0.21	1.3	2.5	3.2	15	18
1 x 1	5DR7 052-5	32 x 0.21	1.5	2.6	3.4	20	20
1 x 1.5	5DR7 053-5	30 x 0.26	1.8	2.9	3.7	25	25
1 x 2.5	5DR7 054-5	50 x 0.26	2.6	3.5	4.4	40	35
1 x 4	5DR7 055-5	56 x 0.31	3.2	4.2	5.5	60	47
1 x 6	5DR7 056-5	84 x 0.31	3.9	4.8	6.3	80	59
1 x 10	5DR7 057-5	80 x 0.41	5.1	6.0	7.9	130	81
1 x 16	5DR7 060-5	126 x 0.41	6.3	7.2	9.0	210	105
1 x 25	5DR7 061-5	196 x 0.41	7.8	8.7	11.0	320	145
1 x 35	5DR7 062-5	276 x 0.41	9.2	10	12.4	420	175
1 x 50	5DR7 063-5	396 x 0.41	11.0	11.8	15.4	595	215
1 x 70	5DR7 064-5	360 x 0.51	13.9	15.6	18.0	850	271
1 x 95	5DR7 065-5	475 x 0.51	15.1	16.5	19.1	985	340