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DATA SHEET	0026001
ÖLFLEX® HEAT 105 SC and 105 MC	valid from : 18.01.2008

Application

ÖLFLEX® HEAT 105 SC and 105 MC single and multi cores, are insulated resp. surrounded with a heat resistant PVC compound. They are suitable for use in dry and damp rooms, but not outside. In the case of room temperature they are generally resistant against acids, caustic solutions and certain oils. Continuous, busy movements, usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N/mm² is not allowed.

Design

Conductor	from 0,5 mm^2: fine strands of bare copper wires acc. to IEC 60228 resp. VDE 0295, class 5
Design	single cores: SC 0,25 - 1,0 mm^2 in acc. to HD 21.7 resp. VDE 0281-7 (H05V2-K) 1,50 - 10,0 mm^2 in acc. to HD 21.7 resp. VDE 0281-7 (H07V2-K) cables: MC in acc. to HD 21.12 resp. VDE 0281-12 (H05V2V2-F)
Core insulation	PVC compound TI3 in acc. to HD 21.1 resp. VDE 0281-1
Identification	acc. to VDE 0293-1, with or without gn/ye ground conductor up to 5 cores coloured acc. to HD 308 S2 resp. VDE 0293-308 more than 5 cores acc. to ÖLFLEX colour code
Outer sheath	PVC compound TM3 in acc. to HD 21.1 resp. VDE 0281-1

Electrical properties at 20 °C

Nominal voltage	single cores: SC for 0,25 - 1,0 mm^2 : 300/500 V for 1,50 - 10,0 mm^2 : 450/750 V cables: MC 300/500 V
Test voltage	2500 V AC

Mechanical and thermal properties

Temperature range	fixed installation -20 °C up to + 90 °C max. conductor temperature for short time until + 105 °C max. conductor temperature
Min. bending radius	SC: 4 x cable diameter for fixed installation MC: 4 x cable diameter for fixed installation 15 x cable diameter for flex. applications
Flame retardant	in acc. to IEC 60332-1-2 resp. VDE 482-332-1-2
Tests	in acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x, VDE 0472
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).