

OZOFLEX (PLUS) SCREENED (FC+)

Submersible overall screened cable (emc compliant)



APPLICATION

Specifically designed for pumps in water waste-water under medium mechanical stress.

- Sewage treatment plants
- Waste water pumps, effluent aerators
- For pumps requiring control cores
- Electromagnetic compatibility (EMC)
- Abattoirs (high temp chemical cleaning)
- Dairy industry
- Mining - de-watering
- Chemical plants & steelworks
- Hygienic cleaning in breweries, food processing plants etc.
- Water depth approx. 10m in waste water, up to 500m in all other types

DESIGN

OZOFLEX (PLUS) cables consist of finely stranded copper conductors laid up to provide a flexible design. R-EP-90 elastomer insulation provides improved current capacities. Cables above 16mm² and all control cables include an additional elastomer inner sheath and all cables up to 6mm² have tinned conductors. The specially compounded heavy duty CSP Elastomer sheath (Hypalon) is oil resistant and flame retardant and resists the effects of water absorption.

The construction is in accordance with the Australian Standards AS 1125, AS 3191, AS/NZS 5001-1 and DIN/VDE 282 and CENELEC standards for O7RN, IEC 60 332-1.

OPERATING TEMPERATURE

- Minimum permissible ambient temperature -40°C
- Maximum permissible short circuit temperature 250°C
- Minimum ambient temperature for optimum fully flexible operation -25°C

CURRENT CARRYING CAPACITY

Current ratings are based on continuous operation at an ambient temperature of 40°C. At other temperatures these values must be converted using the following table.

°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

VOLTAGE RATING

- Rated voltage: $U_0/U = 0.6/1kV$
- Maximum operating voltages in:
 - 3 phase AC operation $U_0/U = 0.7/1.15kV$
 - DC operation $U_0/U = 0.9/1.73kV$
- AC test voltage = 2.5kV

* The cable is designated 450/750V with EI1 insulation compound in accordance with VDE/IEC and meets or exceeds the Australian Standard AS 3116 for the voltage rating of 0.6/1kV, R-EP-90.

CORE COLOUR IDENTIFICATION


Single Core	black
3 Core	blue, brown, green/yellow
4 Core	brown, black, green/yellow, grey
5 Core	blue, brown, black, green/yellow, grey
Multi core	black insulation sequentially numbered including a green/yellow earth core.


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Selection and ordering data

No. of cores and conductor size strand diameter mm ²	Part No.	Power conductor approx. number of strands x Max. mm	Overall diameter of cable		Net weight 1000 m approx. kg/km	Unenclosed Touching  A
			Min mm	Max mm		
4 G 1.5	5DH5 312	28 x 0.26	13.0	15.0	280	19
4 G 2.5	5DH5 313	45 x 0.26	15.5	18.0	415	26
4 G 4	5DH5 314	51 x 0.31	17.5	20.0	545	35

No. of cores and conductor size strand diameter mm ²	Part No.	Power conductor approx. number of strands mm	Overall diameter of cable		Net weight kg	Unenclosed Touching  A
			mm	mm		
4 G 6 + 4 x 1.5	5DH5 148	75 x 0.31	26.00		930	45
4 G 10 + 4 x 1.5	5DH5 149	77 x 0.41	26.70		1133	62
4 G 16 + 4 x 1.5	5DH5 150	123 x 0.41	28.40		1363	83
4 G 25 + 4 x 2.5	5DH5 152	190 x 0.41	34.00		2022	110
4 G 35 + 4 x 2.5	5DH5 151	268 x 0.41	36.40		2550	135
4 G 50 + 4 x 2.5	5DH5 154	384 x 0.41	42.50		3600	170
4 G 70 + 4 x 2.5	5DH5 153	545 x 0.41	48.20		4800	215
4 G 95 + 4 x 2.5	5DH5 155	724 x 0.41	56.20		6110	265