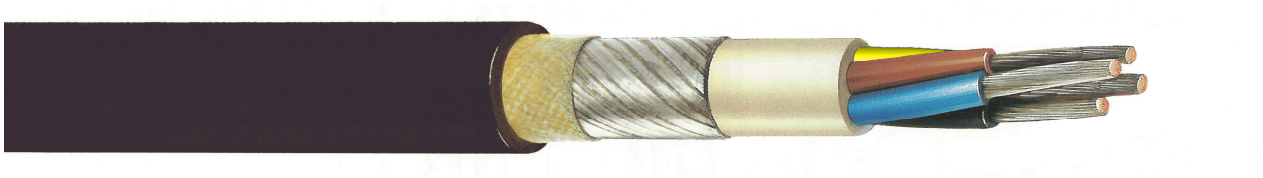
OZOFLEX (PLUS) SCREENED (FC+)

SIEMENS
Flexible cables

Flexible Cables for Submersion in Polluted Liquids

EMC Compliant



OZOFLEX (PLUS) SCREENED (FC+)

Part No.	Number of Cores and Conductor Size	Approx. number of strands x max. strand diameter	Bare Copper Diameter (approx.)	diameter of Overall cable		Net weight	Unenclosed Touching a surface
				Min	Max	1000m approx.	
	mm²	mm	mm	mm	mm	kg	A
5DH5 312	4G1.5	28 x 0.26	1.5	13	15	280	19
5DH5 313	4G2.5	45 x0.26	1.9	16	18	415	26
5DH5 314	4G4	51 x 0.31	2.5	18	20	545	35
5DH5 315	4G6	75 x 0.31	3.2	20	22	700	45
5DH5 316	4G10	77 x 0.41	4.1	24	26	1010	62
5DH5 317	4G16	123 x 0.41	5.6	28	31	1460	83
5DH5 318	4G25	190 x 0.41	6.8	33	36	2100	110
5DH5 320	4G35	268 x 0.41	8.1	36	40	2730	135
5DH5 321	4G50	384 x 0.41	9.6	42	46	3680	170
5DH5 322	4G70	545 x 0.41	11.2	47	50	4800	215
5DH5 323	4G95	724 x 0.41	13.2	54	58	6280	265
5DH5 324	4G120	926 x 0.41	14.9	58	62	7520	305

OZOFLEX (PLUS) SCREENED (FC+) With 4 Pilots

5DH5 315-4	4G6 + 4x1.5	75 x 0.31	-	26	26	930	45
5DH5 316-4	4G10 + 4x1.5	77 x 0.41	4.1	26	27	1133	62
5DH5 317-4	4G16 + 4x1.5	123 x 0.41	5.6	29	32	1510	83
5DH5 318-4	4G25 + 4x2.5	190 x 0.41	6.8	34	37	2150	110
5DH5 320-4	4G35 + 4x2.5	268 x 0.41	8.1	37	41	2780	135
5DH5 321-4	4G50 + 4x2.5	384 x 0.41	9.6	43	47	3720	170
5DH5 322-4	4G70 + 4x2.5	545 x 0.41	11.2	48	51	4850	215
5DH5 323-4	4G95 + 4x2.5	724 x 0.41	13.2	55	59	6330	265

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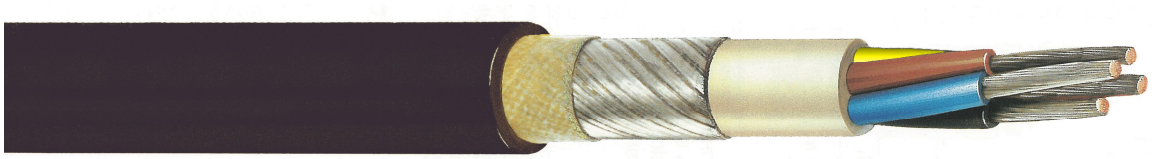

APPLICATION

For making connections to electrical equipment used in a waste-water environment and subject to medium mechanical stress, especially if considerable demands in respect of electromagnetic compatibility (EMC) according to the EMC directive imposes. For an effective shielding, both ends of cable must have a good shield contact to ground.
ÅSewage Treatment Plants
ÅWaste water pumps, effluent aerators
ÅFor pumps requiring control cores
ÅElectromagnetic compatibility (EMC)
ÅAbattoirs (high temp chemical cleaning)
ÅDairy industry
ÅMining - de-watering
ÅChemical plants & steelworks
ÅHygienic cleaning in breweries, food processing plants etc.
ÅWater depth approx. 10m in waste water, up to 500m in all other types

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: Uo/U = 0.6/1kV
- Maximum operating voltages in:
3 phase AC operation Uo/U = 0.7/1.15kV
DC operation Uo/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.

DESIGN

OZOFLEX (PLUS) SCREENED cables consist of finely stranded copper conductors laid up to provide a flexible design. R-EP-90 elastomer insulation provides improved current capacities. All cables up to 6mm2 have tinned conductors. Between the elastomer inner and outer sheaths there is an overall tinned copper screen. 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 3116 and DIN/VDE 0282 and CENELEC standards for 07RN, 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

CORE COLOUR IDENTIFICATION

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