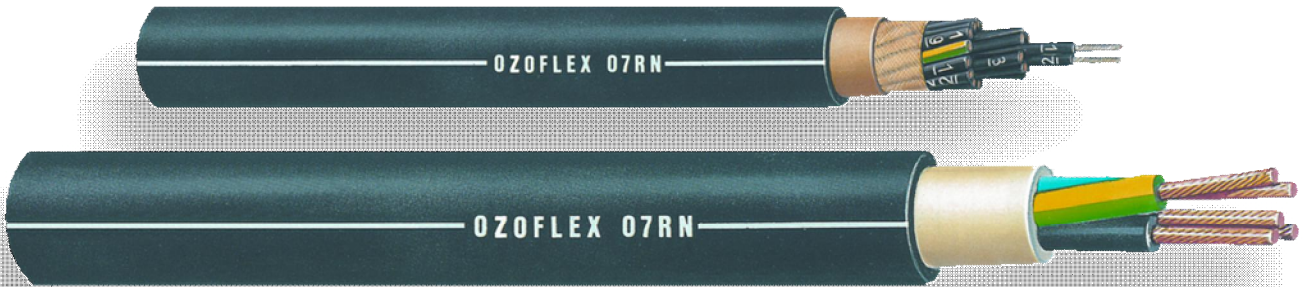


## OZOFLEX

### Heavy Duty EPR/CSP Rubber Flexible Cables



#### APPLICATION

- ~ Heavy Duty construction site leads for drills, pumps, saws, Kangos
- ~ Steelworks and rolling mills
- ~ Hand held drills, grinders & welders (OZOFLEX ULTRA)
- ~ Portable motors, generators & power supplies
- ~ Submersible to 100 meters plus
- ~ Cranes, hoists & festoon systems
- ~ Stage & theatre power & lighting
- ~ Agricultural equipment

#### DESIGN

OZOFLEX is designed as a heavy duty flexible for dry, damp and wet environments, areas of stress caused by vibration or impact and is resistant to abrasion, exposure to radiated heat and chemical contamination. Because of the black, flame retardant CSP sheath OZOFLEX is suitable for areas subject to fire hazard and hazardous locations. OZOFLEX cables consist of finely stranded copper conductors laid up to provide a flexible design. R-EP-90 elastomer insulation provides improved current capacities.

#### 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.

When installed on spring operated reels the following de-rating factors are to be applied:

- 1 layer on reel 0.80
- 2 layers 0.61
- 3 layers 0.49

°C	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Factor	1.26	1.20	1.15	1.11	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 is 15N/mm<sup>2</sup>. This ensures no conductor damage will occur in operation.

#### CORE COLOUR IDENTIFICATION

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

#### OZOFLEX

Cables above 16mm<sup>2</sup> and all control cables have an elastomer inner sheath. The CSP elastomer sheath (Hypalon) is oil resistant and flame retardant in accordance with VDE 0472. The construction is in accordance with the Australian Standards AS 1125, AS 3191, AS 3116 and DIN/VDE 0282 IEC332-1 and CENELEC standards for O7RN. OZOFLEX cables, covered by the Prescribed Items Act mandatory approval for flexible leads, are accordingly covered by Approval Certificate No. 11551.

#### 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

#### MINIMUM BENDING RADII

- The following minimum 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

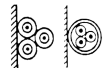
- Rated Voltage:  $U_0/U = 0.6/1kV$
- Maximum operating voltages in:
  - 3 phase AC operation  $U_0/U = 0.7/1.15kV$
  - DC operation  $U_0/U = 0.9/1.73kV$
  - AC test voltage = 2.5kV
- \*The cable is designated 450/750V with E11 insulation compound in accordance with VDE/IEC and meets or exceeds the Australian Standard AS 3116 for the voltage rating of 0.6/1kV, REP-90.

## OZOFLEX

### Heavy Duty EPR/CSP Rubber Flexible Cables

**SIEMENS**

Flexible cables

	Number of Cores x Conductor Size	Part Number	Approx. No of Strands x Max. Strand Diameter	Diameter of Bare Conductor	Cable Overall Diameter		Cable Weight kg/km	Current Carrying Capacity touching a Surface in air  A
					Min mm	Max mm		
		mm <sup>2</sup>	mm	mm				
Ozoflex with black insulation and sheath	1 x 10	5DH2 110-5	80 x 0.41	4.1	9.8	12.5	200	65
	1 x 16	5DH2 112-5	126 x 0.41	5.7	11	14.5	320	86
	1 x 25	5DH2 113-5	196 x 0.41	6.8	12.5	15	450	115
	1 x 35	5DH2 114-5	276 x 0.41	8.1	14	16.5	605	145
	1 x 50	5DH2 115-5	396 x 0.41	9.7	16.5	19.5	825	175
	1 x 70	5DH2 116-5	546 x 0.41	11.2	18.5	21	1090	225
	1 x 95	5DH2 117-5	725 x 0.41	13.2	21	24	1405	280
	1 x 120	5DH2 118-5	927 x 0.41	14.9	23.5	26.5	1745	325
	1 x 150	5DH2 120-5	1157 x 0.41	16.6	26	28.5	2130	375
	1 x 185	5DH2 121-5	1409 x 0.41	18	28	30	2300	435
1 x 240*	5DH2 122-5	1869 x 0.41	21.2	31.5	35	3100	520	
1 x 300*	5DH2 123-5	2338 x 0.41	23.6	33.5	38	3810	610	
without a green/yellow earth	2 x 1.5	5DH2 204-5	30 x 0.26	1.5	9	11.5	135	20
	2 x 2.5	5DH2 205-5	50 x 0.26	1.9	10.5	13.5	195	28
	2 x 4	5DH2 206-5	56 x 0.31	2.5	12	15	270	37
Ozoflex including a green/yellow earth core	3G1	5DH2 303-5	32 x 0.21	1.2	8.6	10.5	130	14
	3G1.5	5DH2 304-5	30 x 0.26	1.5	9.6	11	165	19
	3G2.5	5DH2 305-5	50 x 0.26	1.9	11.5	13	235	26
	3G4	5DH2 306-5	56 x 0.31	2.5	13	15	320	35
	3G6	5DH2 307-5	84 x 0.31	3.2	14.5	16.5	495	45
	3G10	5DH2 310-5	80 x 0.41	4.1	20	22.5	880	62
	3G16	5DH2 312-5	126 x 0.41	5.7	22.5	26.5	1090	83
	4G1	5DH2 403-5	32 x 0.21	1.2	9.8	10.2	140	14
	4G1.5	5DH2 404-5	30 x 0.26	1.5	10.5	12.5	192	19
	4G2.5	5DH2 405-5	50 x 0.26	1.9	12.5	14	290	26
	4G4	5DH2 406-5	56 x 0.31	2.5	14.5	16.5	395	35
	4G6	5DH2 407-5	84 x 0.31	3.2	16.5	18	530	45
	4G10	5DH2 410-5	80 x 0.41	4.1	21.5	25	930	62
	4G16	5DH2 412-5	126 x 0.41	5.7	24.5	28.9	1300	83
	4G25	5DH2 413-5	196 x 0.41	6.9	29.5	35	1880	110
	4G35	5DH2 414-5	296 x 0.41	8.1	33	37.5	2450	135
	4G50	5DH2 415-5	396 x 0.41	9.7	33	43.5	3380	170
	4G70	5DH2 416-5	551 x 0.41	11.3	43	48.5	4450	215
	4G95	5DH2 417-5	733 x 0.41	13.2	49	55	5830	265
	4G120	5DH2 418-5	938 x 0.41	15	53	60	7140	305
	5G1	5DH2 503-5	32 x 0.21	1.2	10.5	12.5	180	14
	5G1.5	5DH2 504-5	30 x 0.26	1.5	11.5	13.5	240	19
	5G2.5	5DH2 505-5	50 x 0.26	1.9	13.5	15.8	345	26
	5G4	5DH2 506-5	56 x 0.31	2.5	16	18.8	485	35
	5G6	5DH2 507-5	84 x 0.31	3.2	18	22	760	45
	5G10	5DH2 510-5	80 x 0.41	4.1	24	27	1300	62
	5G16	5DH2 512-5	126 x 0.41	5.7	27	32.5	1680	83
	5G25	5DH2 513-5	196 x 0.41	6.9	32.5	37	2470	110
	5G35	5DH2 514-4	296 x 0.41	8.1	37.5	41.5	3306	135