

8100961	DATA SHEET	
Valid from: 20.06.2024	ÖLFLEX® POWER SDI X-90/5V-90 BK	

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1. Application

ÖLFLEX® POWER SDI X-90/5V-90 BK are double-insulated single-core cables with XLPE insulation and UV-resistant PVC outer sheath, ideal for surface wiring, including switchboards, transformers, and mains power distribution.

2. Reference Standard(s)

Based on AS/NZS 5000.1

3. Cable Construction

- 3.1. Conductor : Fine strands of plain annealed copper acc. to AS/NZS 1125, Class 5
- 3.2. Core Insulation : XLPE compound X-90
- 3.3. Core Colour : White
- 3.4. Outer Sheath : UV-Resistant PVC compound 5V-90
- 3.5. Sheath colour : Black

4. Technical Data

- 4.1. Rated Voltage : 600/1000 V
- 4.2. Test Voltage : 3.5 kV AC
- 4.3. Conductor Resistance : In acc. to AS/NZS 1125
- 4.4. Insulation resistance : In acc. to AS/NZS 3808
- 4.5. Min. Bending Radius : 4 x cable diameter (fixed)
- 4.6. Temperature Range : -25°C up to +90°C
- 4.7. UV-resistant : In acc. to EN ISO 4892-2
- 4.8. Flame Retardant : In acc. to AS/NZS 1660.5.6, IEC 60332-1-2
- 4.9. EC Directive : 2011/65/EU (RoHS)

5. Dimensional Data

Part No.	No. of core(s) and conductor cross-section	Approx. Outer Diameter	Approx. Copper Weight	Approx. Cable Weight
	mm ²	mm	kg/km	kg/km
8100961	1 X 10	8.7	96.0	148
8100962	1 X 16	9.8	153.6	208
8100963	1 X 25	11.5	240.0	304
8100964	1 X 35	12.8	336.0	401
8100965	1 X 50	14.6	480.0	550
8100966	1 X 70	16.6	672.0	747
8100967	1 X 95	18.5	912.0	965
8100968	1 X 120	20.4	1152.0	1215
8100969	1 X 150	22.8	1440.0	1504
8100970	1 X 185	24.9	1776.0	1814
8100971	1 X 240	28.0	2304.0	2366
8100972	1 X 300	30.9	2880.0	2929
8100973	1 X 400	35.0	3840.0	3823
8100974	1 X 500	39.0	4800.0	4804
8100975	1 X 630	44.5	6040.0	6340

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