

0044008	DATA SHEET	
valid from: 30.04.2025	ÖLFLEX® CRANE VS (N)SHTÖU	

Application

ÖLFLEX® CRANE VS (N)SHTÖU cables are connecting and control cables with a central strength member especially for use in hoists, transport and conveyor systems, also for reeling and unreeling, for high mechanical load considering the admissible values. They are among others useable in dry and damp areas and in industrial water. Considering the indicated temperature range an outdoor use is possible. At room temperature they are generally resistant against acids, alkalis and certain oils.

Design

Design	based on VDE 0250-814
Conductor	fine strands of tinned copper wires acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	rubber compound 3GI3 acc. to VDE 0207-20
Core identification code	acc. to VDE 0293-1, with GN/YE ground conductor up to 5 cores coloured in acc. to HD 308 S2 that is VDE 0293-308 starting at 6 cores: Black cores with white numbers acc. to EN 50334
Cable assembly	cores stranded around a supporting element made of synthetic material.
Inner sheath	rubber compound 5GM5 acc. to VDE 0207-21, Colour: yellow, similar RAL 1021
Support braid	supporting braid of textile integrated in the outer sheath
Outer sheath	rubber compound 5GM5 acc. to VDE 0207-21, Colour: yellow, similar RAL 1021

Electrical properties at 20 °C

Nominal voltage	U ₀ /U: 600 / 1000 V
Test voltage	4000 V AC

Mechanical and thermal properties

Minimum bending radius	acc. to VDE 0298-3, table 3
Temperature range	fixed installation: -45 °C up to +80 °C max. ambient temperature flexing: -25 °C up to +80 °C max. ambient temperature up to +90 °C max. conductor temperature
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Oil resistance	acc. to VDE 0207-21, 5GM5

Tests

acc. to IEC 60811 resp. EN 60811 and VDE 0472

General requirements

These cables conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Environmental information

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

Creator: MAIH / PDC	Document: DB0044008EN	Page 1 of 2
Released: ALTE / PDC	Version: 07	

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No. of cores x cross-section [mm²]	Tensile load centre filler [N]	Tensile load complete cable [N]	No. of cores x cross-section [mm²]	Tensile load centre filler [N]	Tensile load complete cable [N]		
3	1,5	2000	2050	7	1.5	2000	2150
	2,5	2000	2100	12		2000	2250
	4	2000	2150	18		2000	2400
	6	2000	2250	24		4000	4500
	10	2000	2450	30		4000	4650
	16	2000	2700	36		4000	4800
	25	2000	3100	44		4000	4950
4	1,5	2000	2050	7	2.5	2000	2250
	2,5	2000	2150	12		4000	4450
	4	2000	2200	18		4000	4650
	6	2000	2350	24		4000	4900
	10	2000	2600	30		4000	5100
	16	2000	2950	36		4000	5350
	25	2000	3500	44		4000	5650
	35	2000	4100	7	4	4000	4400
	50	4000	7000	12		4000	4700
	70	4000	8200	18		4000	5000
	95	7000	12700				
5	1,5	2000	2100				
	2,5	2000	2150				
	4	2000	2300				
	6	2000	2450				
	10	2000	2750				
	16	2000	3200				
	25	2000	3850				
	35	4000	6600				
	50	4000	7750				
	70	7000	12250				
	35	4000	6600				

Creator: MAIH / PDC	Document: DB0044008EN	Page 2 of 2
Released: ALTE / PDC	Version: 07	