

**NSSHCOEU cable|NSSHCÖEU EPR rubber Cable** for installation as motor power supply cables for frequency converters in mining industry. Cables classified according to EN 50575 (CPR). Suitable for laying on material handling equipment, also for continuous slight movements. Can also be used as a connection cable between upper and lower part of excavator, stacker/reclaimer etc, [elevator traveling cable](#).



**NSSHCOEU cable|NSSHCÖEU EPR rubber Cable** Structure

Conductor material: Tinned copper conductor, class 5 acc. to DIN VDE 0295

Insulation: EPR compound 3GI3 acc. to DIN VDE 0207

Screen: Tinned copper braiding

Inner sheath: EPR compound Gm1b acc. to DIN VDE 0207, part 21

Outer sheath: Yellow, PCP compound type: 5GM5

Temperature fixed installation: -40°C / + 80°C

Temperature flexible installation: -25°C / + 80°C

Temperature in service: + 90°C

Temperature in short circuit: + 250°C

Nominal voltage  $U_0$ : 0,6kV

Nominal voltage  $U$ : 1kV

Testing voltage: 3000 V

Maximum operating voltage: A.C.  $U_0/U = 0,7/1,2$  kV

D.C.  $U_0/U = 0,9/1,8$  kV

Tensile strength: 15 N/mm<sup>2</sup>

Torsional stress: +/- 25°/m

Oil resistant: DIN VDE 0473, part 811-2-1 EN/IEC 60811-2-1

Fire resistant: VDE 0482, part 332-1-2 EN/IEC 60332-1-2

**NSSHCOEU cable|NSSHCÖEU EPR rubber Cable parameters**

n x mm <sup>2</sup>	Nominal O.D [mm]	Approximate cable weight [kg/km]	Conductor resistance at 20°C [Ω/km]	Inductance [mH/km]	Operating capacitance [μF/km]	Current carrying short-circuit current at 30°C [A]	Permissible short-circuit current (1s) [kA]	Maximum permissible tensile force [N]
3x16+3x2,5	25,0	1130	1,24	0,32	0,36	99	1,95	720
3x25+3x4	30,3	1700	0,795	0,32	0,36	131	3,05	1125
3x35+3x6	32,5	2065	0,565	0,38	0,38	162	4,27	1575
3x50+3x25/3	38,6	2950	0,393	0,38	0,38	202	6,10	2250
3x70+3x35/3	43,9	4040	0,277	0,30	0,40	250	8,54	3150
3x95+3x50/3	49,7	5400	0,210	0,30	0,40	301	11,59	4275
3x120+3x70/3	53,6	6520	0,164	0,29	0,42	352	14,64	5400
3x150+3x70/3	59,4	7740	0,132	0,29	0,45	404	18,30	6750