



1,8/3kV, unshielded, VDE, CPR Eca



APPLICATION

for fixed installation in rail vehicles and buses, in switchgear as connecting cable, as well as in dry rooms, conduits, and closed installation ducts – also suitable for the protected connection of moving parts. The robust rubber insulation ensures high operational safety under mechanical and thermal stress. Thanks to tested weather and UV resistance according to ISO 4892-2, the cable is also suitable for outdoor applications.



SPECIAL FEATURES

- cables with 3 kV operating voltage in low voltage facilities up to 1.000 V are classified as short circuit and earth leakage protected connection
- good resistant to abraision, grease, lubricants and specified types of oil
- Weather and UV resistance (tested according to ISO 4892-2)

REMARKS

- RoHS compliant

PRODUCT DETAILS

DESIGN

Conductor material	tinned copper strands
Conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 60228 cl. 5
Core insulation	rubber compound
Outer sheath material	special rubber-compound
Sheath colour	black

ELECTRICAL PROPERTIES

Rated voltage AC IEC	U ₀ /U: 1,8/3 kV
Testing voltage	6 kV
Current carrying capacity	reference value acc. to VDE see table on the right side. For divergent environmental conditions see conversion factors, technical guideline p. 16.076 and following

MECHANICAL & DYNAMIC PROPERTIES

Min. bending radius fixed	5 x d
Min. bending radius moved	5 x d

THERMAL PROPERTIES

Operat. temp. fixed min./max. [°C]	-40 °C / +80 °C
Operat. temp. moved min/max [°C]	-25 °C / +80 °C
Temp. at conductor in operation max [°C]	+90 °C

PROPERTIES IN CASE OF FIRE

Burning behavior	self-extinguishing and flame-retardant acc. to IEC 60332-1
-------------------------	--

CHEMICAL RESISTANCE & OTHER PROPERTIES

Oil resistance acc. to EN 60811-404

STANDARDS & APPROVALS

Standard acc. to DIN VDE 0250 part 602

ITEM OVERVIEW

NSGAFÖU

Item no. [TKD]	Dimension	Outer-Ø [mm]	Current carrying capacity [A] 30°C air	Cu Index [kg/km]	Weight [kg/km]
3500262	1 X 1,5	5,6 - 9,0	30	14,4	50,0
3500282	1 X 2,5	6,0 - 10,0	41	24,0	65,0
3500296	1 X 4	6,5 - 10,5	55	39,0	85,0
3500303	1 X 6	7,1 - 11,0	70	58,0	105,0
3500265	1 X 10	8,3 - 12,0	98	96,0	160,0
3500275	1 X 16	9,3 - 14,5	132	154,0	235,0
3500288	1 X 25	11,4 - 16,5	176	240,0	360,0
3500292	1 X 35	12,6 - 18,0	218	336,0	460,0
3500299	1 X 50	14,2 - 19,5	276	480,0	620,0
3500306	1 X 70	16,0 - 21,5	347	672,0	820,0
3500309	1 X 95	18,5 - 22,0	416	912,0	1.070,0
3500268	1 X 120	20,3 - 26,0	488	1.152,0	1.320,0
3500271	1 X 150	22,3 - 27,5	566	1.440,0	1.620,0
3500278	1 X 185	24,2 - 29,5	644	1.776,0	1.950,0
3500285	1 X 240	27,1 - 33,0	775	2.304,0	2.540,0
3500290	1 X 300	30,2 - 36,5	898	2.880,0	3.178,0
3500490	1 X 400	34,5 - 38,5	1060	3.840,0	4.211,0