(N)SSHOEU PUR

Halogen Free Low Voltage Flexible PUR Cable | 1 kV

AnHui Feichun Special Cable Co., Ltd

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Halogen-Free Flexible PUR Cable

(N)SSHOEU PUR is designed for flexible use and fixed installation in opencast mining applications, in quarries, on construction sites and similar applications with heavy mechanical stresses. The cables can be used indoors as well as outdoors, in explosion-hazard areas, in industry and in agriculture.

They can be used permanently in waste water up to 40°C at a depth of max. 2,000 m and in industrial water, cooling water, surface water, rainwater and mixed water — and in groundwater and seawater to a more limited extent. The requirements for accessibility and inspection depend on the consistency of the water.

Total Configurations: 11 — covering 3-core, 4-core, 7-core, 12-core and 24-core constructions, with conductor sizes from 1 mm² up to 185 mm².

Technical Summary & Specifications

ELECTRICAL

Rated Voltage U0/U: 0.6/1 (1.2) kV
Test Voltage: 3.5 kV
AC Test (control cores): 2 kV

THERMAL

Max conductor temp: 90°C
Short circuit temp: 250°C
Fixed install: -40 to +80°C
Flexible install: -30 to +80°C

MECHANICAL

Torsional stress: ±50°/m
Tensile strength: 15 N/mm² static
Bend radius: 4×D fixed / 5×D flexible

CHEMICAL

Halogen Free: ✓ Yes
Flame Retardant: ✓ EN/IEC 60332-1-2
Oil / Ozone / UV: ✓ Resistant
Sea Water Resistance: Yes
Max Water Depth: 10 m

Standards: DIN VDE 0250-812 • DIN EN 60228 / IEC 60228 / VDE 0295 • DIN VDE 0293-308 • DIN EN 50363 / DIN VDE 0207-20 • DIN EN 60332-1-2 / IEC 60332-1-2 • DIN VDE 0298-4 • IEC 60811-404

Cable Construction

Conductor & Insulation

1. Conductor — finely stranded copper, tinned, class 5
2. Core insulation — EPR rubber (Special compound 3G13)

Core Arrangement

3. Three, four or five cores laid-up

Sheath

4. Outer sheath — Polyurethane (PUR), halogen-free

Complete Technical Specification — All 11 Configurations

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Bend Radius Moving (mm)	Bend Radius Fix (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current (A)
3×2.5	1.9	10.4	11.9	60	48	160	113	230	0.32	8.21	30
4×1	1.3	10.5	12	60	48	140	60	210	0.32	20	18
4×1.5	1.6	11.5	13	65	52	170	90	220	0.33	13.7	23
7×1	1.3	13.5	15	75	60	240	105	220	0.32	20	18
7×2.5	1.9	16.2	17.7	89	71	380	263	240	0.32	8.21	30
12×1	1.3	16	17.5	88	70	340	180	220	0.32	20	18
12×2.5	1.9	20	21.5	108	86	570	450	240	0.32	8.21	30
24×1	1.3	20.5	22.5	113	90	570	360	220	0.33	20	18
24×2.5	1.9	26.4	28.4	142	114	1,040	900	230	0.32	8.21	30
4×120	14.2	50.7	54.7	274	219	5,800	7,200	690	0.23	0.161	352
4×185	17.9	63	67	335	268	9,000	11,100	710	0.23	0.106	461

Applications & Ordering Information

Suitable for flexible use and fixed installation in opencast mining, quarries, construction sites, explosion-hazard areas, industry and agriculture. Usable permanently in waste water up to 40°C at depths up to 2,000 m, and in industrial, cooling, surface, rainwater and mixed water; also suitable for groundwater and seawater to a more limited extent. All 11 standard configurations available ex-works with standard lead times.

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