ANHUI FEICHUN SPECIAL CABLE CO., LTD.

安徽飞纯特种电缆有限公司

(N)SSHOEU PUR

HALOGEN FREE LOW VOLTAGE FLEXIBLE CABLE | 0.6/1 KV

HALOGEN FREE | PUR SHEATH | FLEXIBLE INSTALLATION | WATER RESISTANT

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CABLE APPLICATIONS

This halogen-free low voltage flexible PUR cable is engineered for flexible use and fixed installation in demanding environments including opencast mining applications, quarries, construction sites, and similar applications with heavy mechanical stresses. The cables excel in both indoor and outdoor conditions, including explosion-hazard areas, industrial facilities, and agricultural settings. They can be used permanently in waste water up to 40°C at depths of maximum 2000 meters, and in industrial water, cooling water, surface water, rainwater, and mixed water. The cables also perform well in groundwater and seawater to a more limited extent. In aggressive water or water composed of special substances, the cable's resistance properties should be tested. All other specifications comply with DIN VDE 0298 part 3 standards.

ELECTRICAL PARAMETERS

RATED VOLTAGE Uo/U (UM)

0.6/1 (1.2) kV

TEST VOLTAGE

3.5 kV

AC TEST VOLTAGE (CONTROL CORES)

2 kV

AVAILABLE CONFIGURATIONS

CONFIG	COND. Ø (MM)	CABLE Ø MIN (MM)	CABLE Ø MAX (MM)	BEND RADIUS MOVING (MM)	BEND RADIUS FIX (MM)	WEIGHT (KG/KM)	MAX TENSILE (N)	CAPACITANCE (NF/KM)	INDUCTANCE (MH/KM)	RESISTANCE (Ω/KM)	CURRENT (A)
3x2.5	1.9	10.4	11.9	60	48	160	113	230	0.32	8.21	30
4x1	1.3	10.5	12	60	48	140	60	210	0.32	20	18
4x1.5	1.6	11.5	13	65	52	170	90	220	0.33	13.7	23
7x1	1.3	13.5	15	75	60	240	105	220	0.32	20	18
7x2.5	1.9	16.2	17.7	89	71	380	263	240	0.32	8.21	30
12x1	1.3	16	17.5	88	70	340	180	220	0.32	20	18
12x2.5	1.9	20	21.5	108	86	570	450	240	0.32	8.21	30
24x1	1.3	20.5	22.5	113	90	570	360	220	0.33	20	18
24x2.5	1.9	26.4	28.4	142	114	1,040	900	230	0.32	8.21	30
4x120	14.2	50.7	54.7	274	219	5,800	7,200	690	0.23	0.161	352
4x185	17.9	63	67	335	268	9,000	11,100	710	0.23	0.106	461

THERMAL PARAMETERS

MAX. CONDUCTOR TEMPERATURE
90 °C

MAX. CONDUCTOR TEMP. (SHORT CIRCUIT)
250 °C

AMBIENT TEMP. FIXED INSTALLATION (MIN)
-40 °C

AMBIENT TEMP. FIXED INSTALLATION (MAX)
80 °C

AMBIENT TEMP. FLEXIBLE INSTALLATION (MIN)
-30 °C

AMBIENT TEMP. FLEXIBLE INSTALLATION (MAX)
80 °C

CHEMICAL PARAMETERS

FLAME RETARDANT
EN/IEC 60332-1-2

HALOGEN FREE
Yes

OIL RESISTANT
Yes

OZONE RESISTANCE
Yes

UV RESISTANCE
Yes

SEA WATER RESISTANCE
Yes

MAX. WATER DEPTH
10 m

MECHANICAL PARAMETERS

TORSIONAL STRESS
±50 °/m

PERMANENT TENSILE STRENGTH (RULE)
15 N/mm²

BENDING RADIUS (FIXED INSTALLATION)
4 × D (VDE 0298-3)

BENDING RADIUS (FLEXIBLE OPERATION)
5 × D (VDE 0298-3)

STANDARDS / APPROVALS

DIN VDE 0250-812
General

DIN EN 60228
Conductor

IEC 60228 / VDE 0295
Conductor

DIN VDE 0293-308
Core Identification

DIN EN 50363
Compound

DIN VDE 0207-20
Compound

DIN EN 60332-1-2	DIN VDE 0298-4	IEC 60811-404
Fire Performance	Electrical Parameters	Chemical Behaviour

CABLE CONSTRUCTION DETAILS

1 Conductor
Finely stranded copper, tinned, class 5

2 Core Insulation
EPR rubber Special compound 3GI3

3 Core Arrangement
Three, four or five cores laid-up

4 Outer Sheath
Polyurethane (PUR)

