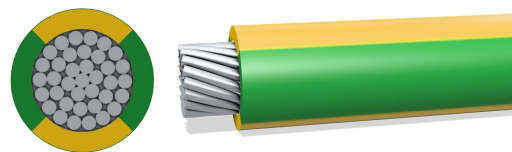


Application

UX is a flame-retardant, halogen-free and mud-resistant single-core insulated conductor for earthing and bonding services on offshore units, drilling rigs, FPSOs and ships, designed to NEK TS 606 (code P15, since NEK TS 606:2016 code P108). The tinned copper conductor is insulated with a halogen-free, cross-linked SHF2 thermoset compound in green/yellow; the conductor has no outer sheath. It is intended for fixed installation as protective earth and equipotential bonding conductor in safe and hazardous areas, including locations exposed to oil and drilling mud. It is not intended for use as a power or control cable.



CONSTRUCTION

Conductor	Tinned annealed stranded circular copper, class 2 acc. to IEC 60228.
Insulation	Halogen-free, flame-retardant and mud-resistant cross-linked thermoset compound SHF2 acc. to IEC 60092-360.
Sheath	None (unsheathed).
Core colour	Green/yellow.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	0.6/1 kV (max. operating voltage 1.2 kV).
Test voltage	3.5 kV (acc. to IEC 60092-353 for 0.6/1 kV).
Standard	NEK TS 606 (code P15 / P108); insulation compound acc. to IEC 60092-360; conductors acc. to IEC 60228.
Flame-retardant	Acc. to IEC 60332-1-2 and IEC 60332-3-22 Cat. A.
Halogen-free	Acc. to IEC 60754-1/-2; low smoke density acc. to IEC 61034-1/-2.
Max. conductor temperature	+90 °C.
Permitted outer cable temperature, fixed	-20 °C to +90 °C.
Min. bending radius, fixed	6 × outer diameter (8 × outer diameter during installation).
Reaction to fire (CPR)	Outside the scope of EN 50575 (shipboard / offshore cable, classified under IEC 60092 and marine type approval, not for permanent installation in construction works).

DIMENSIONS & TECHNICAL DATA

Size (mm2)	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
6	3.11	5	78
10	1.84	6	115
16	1.16	7	173
25	0.734	9	270
35	0.529	10	365
50	0.391	12	500
70	0.27	13.5	710
95	0.195	15.5	950
120	0.154	17.5	1210
150	0.126	19.5	1465
185	0.1	21.5	1820
240	0.0762	24.5	2385
300	0.0607	27	2985
400	0.0475	31	4080
630	0.0286	38.5	6350

Outer diameters, weights and conductor resistance are the nominal manufacturer values of the leading reference source (tinned class-2 conductor); all values are indicative and non-binding.