

Halogen-free, mud resistant insulated conductor UX 1000V, P15

Flame retardant conductors UX 1000V



Halogen-free, NEK TS 606 Type: P15

Maximum operating
Conductor temperature : 90°C
Operating voltage : 1000V

Application

Insulated conductor for earthing and bonding services.
Mud resistant in accordance with NEK TS 606:2009.

Standards applied

IEC:60092-353 &
NEK TS 606:2009 - Design guidelines
IEC:60228 class 2 - Conductor
IEC:60332-1 - Flame retardance
IEC:60332-3-22 - Flame retardance
IEC:60754-1,2 - Halogen-free properties
IEC:61034-1,2 - Smoke density

CONSTRUCTION

	CODE LETTER	
Conductor		Tinned, stranded copper, IEC 60228 class 2 PETP-tape.
Insulation	U	Flame retardant halogen-free thermoset compound, HF90 (IEC 60092-360).
Unsheathed	X	
Marking		E.g; "meter" "year" DRAKA NORSE KABEL UX 1000V P15 1x 95 mm ² IEC 332-3-22
Colour		Yellow/green

RANGE AND DIMENSIONS: UX 1000V Insulated conductor, P15

Conductor area (mm ²)	Conductor diameter approx. (mm)	Insulation thickness (mm)	Diameter over insulation (mm)	Weight of conductor approx. (kg/km)	Copper content approx. (kg/km)
6	3,15	1,0	5,5±0,8	80	54
10	4,05	1,0	6,5±0,8	120	87
16	5,15	1,0	7,5±0,8	180	143
25	6,4	1,2	9,5±0,8	280	224
35	7,65	1,2	10,5±1,0	370	310
50	9,00	1,4	12,5±1,0	520	430
70	10,85	1,4	14,5±1,0	730	620
95	12,60	1,6	16,5±1,0	970	840
120	14,20	1,6	18,0±1,0	1220	1080
150	15,90	1,8	20,0±1,5	1520	1342
185	17,70	2,0	22,0±1,5	1890	1670
240	20,15	2,2	25,0±1,5	2450	2183
300	22,60	2,4	28,0±1,5	3090	2762
630	32,80	2,8	38,5±2,0	6350	5800

Electrical characteristics:

Conductor area (mm ²)	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating at 1 second, Ampere
6	3.11	3.97	52	840
10	1.84	2.35	72	1400
16	1.16	1.48	96	2240
25	0.734	0.936	127	3500
35	0.529	0.675	157	4900
50	0.391	0.499	196	7000
70	0.27	0.344	242	9800
95	0.195	0.249	293	13300
120	0.154	0.196	339	16800
150	0.126	0.161	389	21000
185	0.100	0.128	444	25900
240	0.0762	0.0972	522	33600
300	0.0607	0.0774	601	42000
630	0.0286	0.0359	890 dc / 780 ac	88200

Installation recommendations:

In accordance with IEC 60092-352

Minimum bending radius		Maximum pulling tension	Minium installation temperature
During installation	Fixed installed	25N x total cross section of conductors	- 20 °C
8 x cable diameter	6 x cable diameter		

Ordering information:

New Part number	Old Part number	Conductor area (mm ²)	Stock item	El-number (Norway only)
20109530		6	Yes	1045541
20109531		10	Yes	1045542
20109532		16	Yes	1045543
20109533		25	Yes	1045553
20109534		35	Yes	1045563
20109535		50	-	1045573
20109536		70	Yes	1045583
20109537		95	Yes	1045593
20121097		120	-	1045603
20109538		150	Yes	1045604
	800810	185	-	-
	800811	240	-	-
	800812	300	-	-
	800815	630	-	-