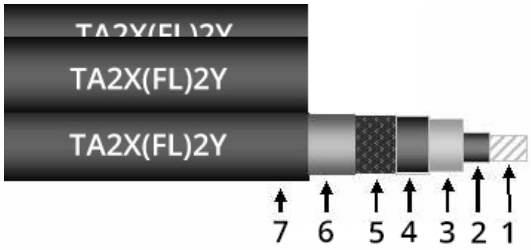
HALLEY CABLES

TA2X(FL)2Y

Power cables

Triple core medium voltage power cable



Construction:

1. Conductor : aluminium stranded conductor, round, compacted, class 2.
2. Screen : extruded semiconductor.
3. Insulation : XLPE.
4. Screen : extruded semiconductor.
5. Tape : semiconducting material, water repellent.
6. Tape : aluminum with copolymer, thickness 0.185 mm and adhesive to the PE sheath.
7. Sheath : medium density PE jacket, weatherproof.

Technical data and tests:

Max. conductor temp. for optimal operation : +90° C.
Max. short-circuit temperature (max. 5 s) : +250° C.
Minimum installation temperature : -20° C.
Minimum operating temperature : -40° C.
Test voltage : 21 kV for cables of 6/10 kV;
42 kV for cables of 12/20 kV;
63 kV for cables of 18/30 kV.
Peak pulling force during installation : max. 30 N/mm² per conductor cross-section.
Partial discharge level at 1.73 Uo : max. 2 PC.
Bending radius : single-core : 15 x D where D is the outer diameter of the core.
triple-core : 12 x D where D is the external diameter of the core.

Notes : in the event of a single bend, for example into enclosures, electrical panels, a single bending radius two times smaller than the regular size is permitted with the condition to be carefully bent, at 20-30° C and following a template.

Permissible currents in the air:

Air temperature : 30° C
Conductor temperature : 90° C.

Conductor cross-section mm²	A Current Nominal Tension 6/10 kV	12/20 kV	8/30 kV
35	153	154	-
50	183	185	187
70	228	231	232
95	278	280	282
120	321	323	325
150	364	366	367

Standards:

Conductor : according to EN 60228.
Insulation : according to CEI 60502-2.
Reference standard : NF C 33-223.

Applications:

This cable is designed for the construction of medium voltage lines. It is transversally and longitudinally waterproof and it can be installed in air, ground or water.

CE RoHS

TA2X(FL)2Y

HALLEY CABLES

TA2X(FL)2Y

Power cables

Triple core medium voltage power cable

www.halleycables.com

DIMENSIONS

Type	Conductor Diameter mm	Nominal Insulation Thickness mm	Diameter of Insulated Conductor min. mm	max. mm	Nominal Sheath Thickness mm	External Diameter of Single-core Cable min. mm	max. mm	External Diameter of Triple-Core Cable mm	Weight of Triple Core Cable kg/km	Aluminium Screen Section
6/10 kV										
3x1x35	6,9	3,4	14,6	16,3	1,8	20,2	23,9	42	1290	10,2
3x1x50	8,0	3,4	15,7	17,5	1,8	21,3	25,3	44	1490	10.9
3x1x70	9,8	3,4	17,3	19,2	1,8	23,0	2,4	48	1780	12,0
3x1x95	11,4	3,4	19,0	21,0	1,8	24,5	29,1	51	2080	12,8
3x1x120	12,9	3,4	20,5	22,6	1,8	25,9	30,8	54	2400	13,7
3x1x150	14,1	3,4	21,9	24,1	1,9	27,3	32,4	57	2720	14,4
12/20 kV										
3x1x35	6,9	5,5	18.8	20,8	1,8	24,2	28,7	50	1750	12,6
3x1x50	8,0	5,5	20,2	21,9	1,8	25,3	30,1	53	1970	13,3
3x1x70	9,8	5,5	21,5	23,6	1,9	27,3	32,4	57	2325	14,4
3x1x95	11,4	5,5	23,2	25,4	1,9	28,7	34,1	60	2660	15,4
3x1x120	12,9	5,5	24,7	27,0	2,0	30,3	36,0	63	3030	16,1
3x1x150	14,1	5,5	26,1	28,5	2,0	31,5	37,4	66	3350	16,8
18/30 kV										
3x1x50	8,0	8,0	24,9	27,2	2,0	30,5	36,3	64	2710	16,3
3x1x70	9,8	8,0	26,5	28,9	2,0	32,3	38,3	67	3080	17,4
3x1x95	11,4	8,0	28,2	30,7	2,1	33,9	40,2	71	3475	18,1
3x1x120	12,9	8,0	29,7	32,3	2,1	35,3	42,0	74	3855	19,1
3x1x150	14,1	8,0	31,1	33,8	2,2	36,7	43,5	76	4235	19,8

TA2X(FL)2Y

CE RoHS