

EB AQUAFLEX TYPE 05 (XLPE)

Cable for potable water applications

material: XLPE tipology: MULTICORE



Applications: Special Cables

Conditions of employment

Special XLPE compound sheathed suitable for permanent use in water.

Type of electrical conductor: Flexible tinned copper

Main rule:

Conductor: EN 60228; IEC 60228

Description

Flexible cables XLPE insulated

Technical Specifications

Review number	n. 3 - 23/7/2019
Nominal tension	300/500 V
Type of insulation	EI7
Type of outer sheath	XLPE
Insulation breakage load	= 5 Mpa
Insulation elongation	= 200%
Outer sheath breakage load	= 7 Mpa
Outer sheath elongation	= 220%
Color of the outer sheath	Blue
Operating temperature	-40° C +90° C
Short circuit temperature	200° C on the conductor (max 5 sec.) °C
Test voltage	2000 V
Cable marking	EB AQUAFLEX ACS KTW WRAS (sezione) mm ²
Minimum radius of curvature	Mobile installation: 4 times the outer diameter, fixed installation: 3 times the outer diameter.
Insulation tolerance	± 0,1
Sheath tolerance	± 0,2

Insulation identification

number of cores	Insulation identification sequence
3.00	Yellow/Green-Blue-Brown
5.00	Yellow/Green-Brown-Black-Grey- Blue
2.00	Blue-Brown

4.00

Yellow/Green-Blue-Brown-Black /
Yellow/Green-Brown-Black-Grey

Sections

Nominal section	Max wire diameter	Conductor diameter	Insulation thickness	Average sheath thickness	Minimum external diameter	Maximum external diameter	Copper electric resistance 20°C	Indicative weight	CU Factor
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(ohm/km)	(kg/km)	(kg/km)
2 ²⁾									
2x0,75	0,21	1,052	0,60	0,80	5,7	7,4	26,70	58	14,4
2x1,00	0,21	1,215	0,60	0,90	6,1	8,0	20,00	69	19,2
2x1,50	0,26	1,435	0,80	1,00	7,6	9,8	13,70	100	28,8
2x2,50	0,26	1,879	0,90	1,10	9,0	11,6	8,21	145	48
2x4,00	0,31	2,445	1,00	1,20	10,6	13,7	5,09	188	76,8
3G0,75	0,21	1,052	0,60	0,90	6,2	8,1	26,70	72	21,6
3G1,00	0,21	1,215	0,60	0,90	6,5	8,5	20,00	83	28,8
3G1,50	0,26	1,435	0,80	1,00	8,0	10,4	13,70	125	43,2
3G2,50	0,26	1,879	0,90	1,10	9,6	12,4	8,21	175	72
3G4,00	0,31	2,445	1,00	1,20	11,3	14,5	5,09	217	115,2
3G6,00	0,31	2,955	1,00	1,40	12,8	16,3	3,39	283	172,8
4G0,75	0,21	1,052	0,60	0,90	6,8	8,8	26,70	90	28,8
4G1,00	0,21	1,215	0,60	0,90	7,1	9,3	20,00	100	38,4
4G1,50	0,26	1,435	0,80	1,10	9,0	11,6	13,70	150	57,6
4G2,50	0,26	1,879	0,90	1,20	10,7	13,8	8,21	220	96
4G4,00	0,31	2,445	1,00	1,30	12,7	16,2	5,09	271	153,6
4G6,00	0,31	2,955	1,00	1,50	14,2	18,1	3,39	375	230,4
5G0,75	0,21	1,052	0,60	1,00	7,6	9,9	26,70	105	36
5G1,00	0,21	1,215	0,60	1,00	8,0	10,3	20,00	120	48
5G1,50	0,26	1,435	0,80	1,10	9,8	12,7	13,70	180	72
5G2,50	0,26	1,879	0,90	1,30	11,9	15,3	8,21	260	120
5G4,00	0,31	2,445	1,00	1,40	14,6	18,6	5,09	358	192

Note:

The manufacturer reserves the right to modify all or part of the data shown in this catalog

Refer to the CEI EN 50565 standard series as a guide to the use of cables with rated voltage not exceeding 450/750 V (U₀ / U) and to the CEI 20-92 standard as a guide for handling and storing wooden cable reels electric.

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