

Construction

Conductor	Flexible bare copper wires Class V Acc. to UNE-EN 60228
Insulation	XLPE (Cross-linked poethylene) Identification: HD 308 S2 (See colour table)
Assembly	Insulated conductors laid up together
Inner sheath	Halogen free compound Colour: Black
Armour	Galvanised steel wire armour Coverage: 90%
Outer sheath	Special halogen free compound RH Colour: Black

Technical characteristics

Operating voltage	600/1000 V
Test Voltage	3500 V
Operating Tª (conductor)	-5°C +90°C
Min. bending radius	10xD

Application

Armoured cable for transport and distribution of electrical energy in fixed installations. Suitable for indoor and outdoor installations, on supports in the air, in tubes or directly buried (great mechanical protection and against rodents). Suitable for installations in public places and places with risk of fire or explosion (ATEX Zones) according to ITC-BT-29, and in general in all locations where an improved cable behavior in case of fire is required. Thanks to the special hydrocarbon resistant compound outer sheath, especially recommended for installations in the Oil and Gas industry.

* CPR:
Cable suitable to be installed under the requirements of the CPR (Construction Product Regulation (EU) N ° 305/2011) according to the classification (Euroclass) specified in this document.

Standards / Properties

Reference standards	Based on IEC 60502-1
CPR Classification (Euroclass)	Cca-s1b,d1,a1 (According to UNE-EN 50575)
Flame Retardant	UNE-EN 60332-1 (IEC 60332-1)
Fire Retardant	UNE-EN 60332-3 (IEC 60332-3)
Halogen free	UNE-EN 60754-1 (IEC 60754-1)
Low corrosivity	UNE-EN 60754-2 (IEC 60754-2) (pH >= 4,3 ; conductivity <= 10µS/mm)
Low smoke emission	UNE-EN 61034 (IEC 61034)
Hydrocarbon resistant	UIC 895 OR



Constructive data

Code	NxS (mm ²)	Inner Ø (mm)	Ø (mm)	Weight (kg/km)	R at 20°C (Ohm/Km)	I (A) Ent, 20°C	I (A) Und, 20°C
44805500	2x1,5	7,8	12,2	325	13,3	26	25
44808400	3G1,5	8,3	12,7	355	13,3	26	25
44813300	4G1,5	9	13,4	394	13,3	23	21
44816200	5G1,5	9,8	14,2	445	13,3	23	21
44818100	6G1,5	10,7	15,1	481	13,3	18,5	16
44819600	7G1,5	10,7	15,1	501	13,3	18,5	16
44821400	8G1,5	11,9	16,3	541	13,3	16	13,5
44823700	10G1,5	13,6	18	682	13,3	16	13,5
44826100	12G1,5	14	18,4	720	13,3	11,5	8,5
44830100	19G1,5	16,5	20,9	1119	13,3	11,5	8,5
44831000	20G1,5	16,8	22,1	1168	13,3	11,5	8,5
44833000	24G1,5	19,4	24,7	1464	13,3	11,5	8,5
44805700	2x2,5	8,8	13,2	383	7,98	36	33
44808600	3G2,5	9,3	13,7	420	7,98	32	28
44813500	4G2,5	10,2	14,6	469	7,98	32	28
44816300	5G2,5	11,2	15,6	540	7,98	32	28
44818300	6G2,5	12,2	16,6	595	7,98	25,5	21
44819700	7G2,5	12,2	16,6	623	7,98	25,5	21
44821500	8G2,5	13,6	18	676	7,98	22,5	18
44823800	10G2,5	15,6	20	858	7,98	22,5	18
4482620F	12x2,5	16,1	20,5	1104	7,98	16	11,5
44805800	2x4	9,6	14	453	4,95	49	43
44808800	3G4	10,2	14,6	497	4,95	49	43
44813700	4G4	11,2	15,6	568	4,95	42	36
44816400	5G4	12,3	16,7	661	4,95	42	36
44805900	2x6	11,2	15,6	526	3,3	63	53
44808900	3G6	11,9	16,3	595	3,3	63	53
4480890F	3x6	13,1	17,5	595	3,3	63	53
44813800	4G6	13,1	17,5	678	3,3	54	44
44816500	5G6	14,4	18,8	789	3,3	54	44
44806000	2x10	13	17,4	683	1,91	86	71
44809000	3G10	13,8	18,2	801	1,91	86	71
44809000	3x10	13,8	18,2	801	1,91	86	71
44813900	4G10	15,5	19,9	934	1,91	75	58
44816600	5G10	16,9	21,3	1402	1,91	75	58
44806100	2x16	13,1	17,5	888	1,21	115	91
44809100	3G16	13,1	17,5	1039	1,21	100	75
4480910F	3x16	14,3	18,7	1039	1,21	100	75
44814000	4G16	16,1	20,5	1553	1,21	100	75
44816700	5G16	17,2	22,5	1816	1,21	100	75
44806200	2x25	19,2	24,5	1536	0,78	149	116
4480920F	3x25	21,2	26,5	1773	0,78	127	96
44814100	4G25	22,7	28	2137	0,78	127	96
44816800	5G25	28,5	34,5	2511	0,78	127	96

Code	NxS (mm2)	Inner Ø (mm)	Ø (mm)	Weight (kg/km)	R at 20°C (Ohm/Km)	I (A) Ent, 20°C	I (A) Und, 20°C
44806300	2x35	21,4	26,9	1817	0,386	185	139
44809300	3x35	22,9	28,4	2193	0,386	158	115
44814200	4G35	25,4	30,9	2645	0,386	158	115
44816900	5G35	27,3	33,5	3185	0,386	158	115

Legend

Code	Cervi codification
NxS (mm2)	Number of conductors x Section (mm2)
Inner Ø (mm)	Aprox. diameter under armour (mm)
Ø (mm)	Aprox. outer diameter (mm)
Weight (kg/km)	Approximate cable weight (kg/km)
R at 20°C (Ohm/Km)	Conductor resistance at 20°C (Ohm/km)
I (A) Und, 20°C	Max. current capacity (A), underground. (Tª20°C)

Colour table

N° Conductors	Insulation colour
2x	Blue, Brown
3x	Brown, Black, Grey
3G	Blue, Brown, Yellow/Green
4x	Blue, Brown, Black, Grey
4G	Brown, Black, Grey, Yellow/Green
5G	Blue, Brown, Black, Grey, Yellow/Green
> 5 (G)	Black numbered + Yellow/Green
> 5 (x)	Black numbered

Remarks

- 1.) Outer diameters are approximate values that may differ significantly in practice. Ask directly if you require greater precision.
- 2.) Ampacity values based on HD 60364-5-52 standard (IEC 60364-5-52) with the following conditions:
- For installations in air: Reference installation method E or F. Single core or multicore cables (Two or three loaded conductors), with an ambient temperature of 30°C.
 - For underground installations: Reference installation method D1. Single core or multicore cables (Two or three loaded conductors), with a temperature of 20°C in the ground and a thermal resistivity of 2.5 K-m/W.
- *The ampacity values are only a reference, the real ones will always depend on the particular conditions of each installation. In practice, the maximum operating temperature in the conductor should not exceed what is indicated in the present document in any case.