

2YSLCYK-J

Flexible, XLPE/PVC cable for power distribution and control cable designed for fixed installations

REFERENCE STANDARDS: According to IEC 60502-1



APPLICATION

Flexible shielded cable designed for use in industrial processes and engine power.

Specially recommended for variable speed drives due to its double shielding and symmetrical distribution of the protective conductor.

STRUCTURE

Conductor

Bare copper conductor, class 5, according to EN 60228 and IEC 60228

Insulation

Cross-linked polyethylene (XLPE) according to 60502-1.

Insulation colour

The standard identification of insulated conductors according to UNE 21089 and HD 308:

- 1 x Natural
 - 2 x Blue + Brown
 - 3 G Blue + Brown + Green/Yellow
 - 3 x Brown + Black + Grey
 - 4 G Brown + Black + Grey + Grey + Green/Yellow
 - 4 x Brown + Black + Grey + Grey + Blue
 - 5 G Brown + Black + Grey + Grey + Blue + Green/Yellow
 - 6 or more Numbered Black + Green/Yellow
- *Other non-standard colours should be consulted in advance prior to ordering.

Stranding

Wiring in concentric layers

Screen

Pes Tape x 2 + Al-Pes Tape

Screen

Tinned copper braid, 80 % Coverage

Tape

Non-woven tape

Sheath

Polyvinyl Chloride (PVC) type ST2 according to IEC 60502-1 +UV Additive (On request)

Colour Sheath

Black

Type of extrusion

Tube

Printing

Marking identification according to customer specifications.

CHARACTERISTICS

Electrical characteristics

Working voltage: $U_0 / U = 0.6/1kV$

Insulation resistance: $> 1000 \text{ MOhm} \times \text{Km}$

AC test voltage: 3500V 5 minutes

Thermal characteristics

Maximum conductor temperature: 90°C.

Maximum short-circuit temperature: 250°C (maximum 5 s).

Minimum service temperature:

Minimum service temperature:

- -5°C flexible installation
- -40°C (static with protection).

Fire characteristics

Flame retardant according to UNE-EN 60332-1 / IEC 60332-1

Mechanical characteristics

Min. bending radius according to DIN EN 50565-1:

Application	<12	12-20	>20
Fixed installation	5D	7.5D	10D
Mobile installation	10D	15D	20D

Impact resistance: AG2 Medium

Environmental characteristics

Resistance to chemical attack: Good.

Degree of water infiltration: AD6.

UV resistant according to UL 1581 (On request)

Installation conditions

In the air.

Buried.

Piped.

RoHS

All homogeneous materials of all articles must not contain the substances of Annex II of the European Directive 2011/65/EU (RoHS) more than the concentration limits listed therein.

REACH

All materials used in the manufacturing process of the product are subject to the EC-Regulation No. 1907/2006 regarding Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). If substances based on the current Candidate List are used, they must be listed with their designation and their concentration.

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DIMENSIONS 2XSL(St)CVv DB

Cross Section	Insulation Thickness (mm)	Sheath Thickness (mm)	Outside Diameter Approx. (mm)	Ampacity in air (30°C) (A)	Ampacity in ground (20°C) (A)	Max. resistance at 20°C (Ohm/Km)	Weight Cable (Kgs/Km)
4 G 1,5	0,7	1,8	11,3	23	31	13,3	177
4 G 2,5	0,7	1,8	12,6	32	40	7,98	235
4 x 4	0,7	1,8	13,8	42	52	4,95	304
4 G 6	0,7	1,8	15	54	70	3,3	387
4 G 10	0,7	1,8	17,4	74	86	1,91	565
4 G 16	0,7	1,8	19,9	98	112	1,21	837
4 G 25	0,9	1,8	23,9	127	145	0,78	1208
4 G 35	0,9	1,8	26,5	158	174	0,554	1589
4 G 50	1	1,9	30,7	192	206	0,386	2181
4 G 70	1,1	2,1	36,2	246	254	0,272	3137
4 G 95	1,1	2,3	41,9	298	305	0,206	4075
4 G 120	1,2	2,4	46	346	348	0,161	5088
4 G 150	1,4	2,6	52,8	399	392	0,129	6498
4 G 185	1,6	2,8	59,2	456	442	0,106	7776
4 G 240	1,7	3	65,1	538	509	0,0801	10142

DIMENSIONS 2XSL(St)CVv/3 DB

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Cross Section	Insulation Thickness (mm)	Sheath Thickness (mm)	Outside Diameter Approx. (mm)	Ampacity in air (30°C) (A)	Ampacity in ground (20°C) (A)	Max. resistance at 20°C (Ohm/Km)	Weight Cable (Kgs/Km)
3 x 1,5 + 3 G 0,25	0,7 / 0,3	1,8	10,6	23	31	13,3 / ~ 76	158
3 x 2,5 + 3 G 0,5	0,7 - 0,6	1,8	13,1	32	40	7,98 - 39	253
3 x 2,5 + 3 G 0,75	0,7 / 0,7	1,8	13,6	32	40	7,98 / 26	251
3 x 4 + 3 G 0,75	0,7 - 0,6	1,8	14,1	42	52	4,95 / 26	317
3 x 6 + 3 G 1	0,7 - 0,7	1,8	15,1	54	86	3,3 - 19,5	422
3 x 6 + 3 G 1,5	0,7 / 0,7	1,8	15,7	54	86	3,3 / 13,3	397
3 x 10 + 3 G 1,5	0,7 - 0,7	1,8	16,8	74	86	1,91 - 13,3	518
3 x 16 + 3 G 2,5	0,7 - 0,7	1,8	19,3	98	112	1,21 / 7,98	796
3 x 16 + 3 G 6	0,7 / 0,7	1,8	21,7	98	112	1,21 / 3,3	938
3 x 25 + 3 G 4	0,9 - 0,7	1,8	22	127	145	0,78 - 4,95	1.068
3 x 25 + 3 G 6	0,9 / 0,7	1,8	22,1	127	145	0,78 / 3,3	1.130
3 x 35 + 3 G 6	0,9 - 0,7	1,8	24,5	158	174	0,554 / 3,3	1.487
3 x 50 + 3 G 10	1 - 0,7	1,8	28,7	192	206	0,386 / 1,91	2.154
3 x 70 + 3 G 10	1,1 - 0,7	2	33,1	246	254	0,272 - 1,91	2.731
3 x 70 + 3 G 16	1,1 / 0,7	2	33,1	246	254	0,272 / 1,21	2.886
3 x 95 + 3 G 16	1,1 - 0,7	2,1	37,9	298	305	0,206 - 1,21	3.545
3 x 120 + 3 G 16	1,3 - 0,7	2,3	42,2	359	348	0,161 - 1,21	4.642
3 x 120 + 3 G 25	1,3 / 0,9	2,3	42,3	359	348	0,161 / 0,78	4.877
3 x 150 + 3 G 25	1,4 / 0,9	2,5	47,5	399	392	0,129 / 0,78	5.884
3 x 185 + 3 G 35	1,6 - 0,9	2,7	53,4	456	442	0,106 / 0,554	7.201
3 x 240 + 3 G 50	1,7 - 1	2,8	58,7	538	509	0,0801 / 0,386	9.437
3 x 300 + 3 G 50	1,8 / 1	3,1	68,1	594	553	0,0641 / 0,386	11.388