



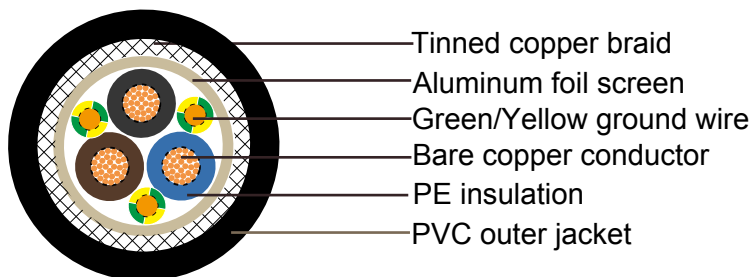
2YSLCY-JB+3/2YSLCYK-JB+3

Application

These cables are double shielded, large gauge size, PVC motor supply cables. Polyethylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. The applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. This version substitutes the common single green/yellow ground wire for three symmetrical green/yellow ground wires for improved EMC characteristics. For medium mechanical stresses found indoors in dry, moist and wet areas. For 2YSLCYK-JB+3, the black UV-resistant jacket allows for outdoor use and for direct burial applications.

Standard

VDE 0250 & 0281, EMC to EN 55011, EMC to VDE-0875 part-11, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant



2YSLCYK-JB+3



2YSLCYK-JB+3

Cable construction

- Stranded bare copper conductor according to DIN VDE 0295, IEC60228 cl. 5
 - Polyethylene(PE) insulation
 - Colours according to HD 308 S2(VDE 0293- 308)
 - Three symmetrical green/yellow ground wires
 - Special aluminum foil screening
 - Tinned copper braiding, coverage approx. 80%
 - For 2YSLCY-JB+3 orange PVC sheath made of PVC compound YM2 acc. VDE 0207 -5, leadfree, flame retardant & self-extinguishing
 - For 2YSLCYK-JB+3 black PVC sheath made of cold-flexible PVC compound DMV5 acc. VDE 0276-603, leadfree, UV resistant, outdoor and direct burial use, flame retardant & self-extinguishing, IEC 60332.1 EEU directives cables conforms to EEC 79/29 directive (Low Voltage Directive)
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Technical Characteristics

- Working voltage: 600/1000 volts
 - Test voltage: 4000 volts
 - Minimum bending radius: 20 x Ø
 - Flexing temperature: -5° C to +70° C
 - Fixed installation temperature: - 40° C to +70° C
 - Flame retardant: IEC 60332.1
 - Insulation resistance: >20 GΩ x km
 - Coupling resistance max. 250 Ω/km
 - Radiation resistance up to 80 x10⁶ cJ/kg (up to 80 Mrad)
 - Mutual capacitance: core/core 70 to 250 nF/km,
core/braiding 110 to 410 nF/km
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2YSLCY-JB+3



Cable Parameter

Conductor AWG	Ground Wire AWG	No. of Cores x Nominal Cross-Section mm ²	Nominal Overall Diameter mm	Mutual capacitance core/core approx. nF/km	Mutual capacitance core/screen approx. nF/km	Copper weight kg/km	Approx. cable weight kg/km
16(30/30)	24	3x1.5+3G0.25	10.2	70	110	91	212
14(50/30)	22	3x2.5+3G0.5	11.9	80	130	152	276
12(56/28)	20	3x4+3G0.75	13.7	90	150	224	446
10(84/28)	18	3x6+3G1	15.3	110	170	298	582
8(80/26)	16	3x10+3G1.5	19.2	120	190	491	794
6(128/26)	14	3x16+3G2.5	22.3	130	220	723	1188
4(200/26)	12	3x25+3G4	27.3	145	230	1138	1713
2(280/26)	10	3x35+3G6	29.4	150	260	1535	2402
1(400/26)	8	3x50+3G10	35	175	290	2208	2718
2/0 (356/24)	8	3x70+3G10	40.6	180	300	2871	3636
3/0 (485/24)	6	3x95+3G16	44	195	320	3953	4978
4/0 (614/24)	6	3x120+3G16	49.5	215	340	4836	6175
300 MCM (765/24)	4	3x150+3G25	55.2	230	360	5421	6579
350 MCM (944/24)	2	3x185+3G35	58.2	240	380	7041	8518
500 MCM (1225/24)	1	3x240+3G50	66	250	410	9148	11611