



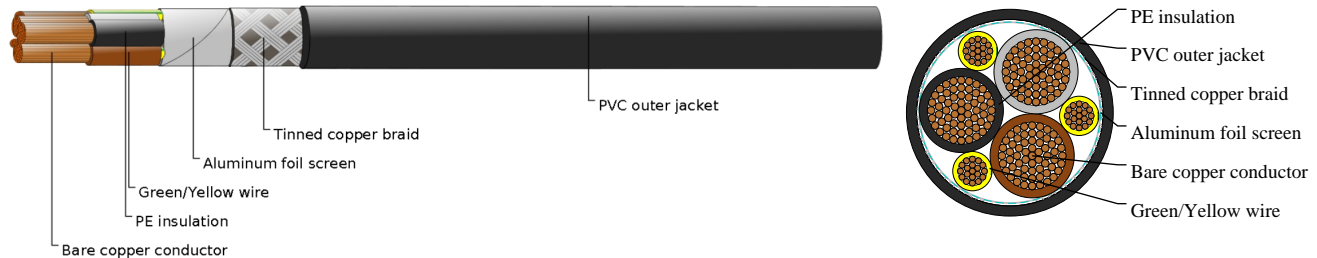
# Caledonian

Motor Connecting Cables

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## 2YSLCY-JB+3/2YSLCYK-JB+3 3x240+3G50



### APPLICATIONS

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.

### STANDARDS

VDE 0250 & 0281

EMC to EN 55011

EMC to VDE-0875 part-11

### VOLTAGE RATING

600/1000V

### 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)

### COLOUR CODE



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## Insulation Colour Code

Colours according to HD 308 S2(VDE 0293- 308)

4 cores (G) - Green-Yellow + Brown + Black + Grey

## PHYSICAL AND THERMAL PROPERTIES

- 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 x10<sup>6</sup> cJ/kg (up to 80 Mrad)
- Mutual capacitance: core/core 70 to 250 nF/km, core/braiding 110 to 410 nF/km

## DIMENSION AND PARAMETERS

No. of Cores × Cross- sectional Area	AWG Size	Mutual Capacitance (core to core)	Mutual Capacitance (core to screen)	Ground Wire	Nom. Overall Diameter	Nominal Copper Weight	Approx. Weight
No. xmm <sup>2</sup>		nF/km	nF/km	AWG	mm	kg/km	kg/km
3x240+3G50	500MCM	250	410	1	66	9148	11611