

Vibration sensor cables and accessories

CMSS 932-SY / CMSS 932-DY / CMSS 932-SB / CMSS 933-SY

Bulk cable: single or double shielded, yellow or blue jacket, twisted pair or triads cables

SKF's CMSS 93X-XX cables are premium sensor cables providing superior performance in demanding environments.

Description

CMSS 932 is a single or double shielded, twisted pair cable with the conductors individually insulated with a fluorine based polymer, a braided shield with drain wire and an outer insulated jacket also made of a fluorine based polymer. Two insulated conductors are cabled together with one un-insulated drain wire and two glass cord fillers. The double shielded option adds an inner shield of aluminum polyester foil with drain wire.

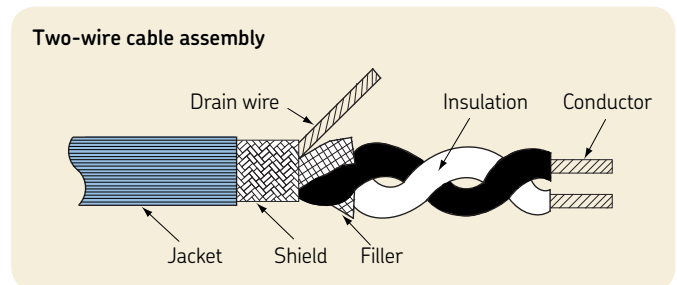
The CMSS 933 cable has the same characteristics as the CMSS 932 cable, except it is a three-wire version for use with dual temperature and vibration sensors. This cable does not have a double shielded option. There are two wire colors (jacket) available:

- Yellow: For high visibility in the often dusty and debris laden industrial environment
- Blue: For use in intrinsically safe circuits in the Oil/Gas and Hydrocarbon Processing industries

Recommended uses

The single shield cable is recommended for use with sensors in normal industrial applications where these cable types have been historically used and installed.

The double shield cable is highly recommended for use with sensors in industrial installations where there is a high noise field, such as machine tools and power generating facilities.



Specifications (all models)

Electrical

- Capacitance: Approximately 89 pF/m (27 pF/ft.)
- Voltage rating: 600 V RMS maximum continuous use

Environmental

- Minimum bend radius: 48 mm (1.9 in.)
- Working temperature range: -80 to +200 °C (-110 to +390 °F)
- Heat and flame resistance: Non-flame propagating
- Plenum rated
- Meets ROHS requirements

Physical

- Materials:
 - Conductor: Tin plated copper, 19 × 32 strands, size 20 AWG (American Wire Gauge)
 - Insulation: Extruded FEP
 - Drain wire: Tin plated copper, 7 × 32 strands, size 24 AWG
 - Shield: 36 AWG tin plated copper braid
 - Jacket: Extruded FEP

- Color code:
 - Conductor: Black and white pair
 - Jacket: Yellow (Y) or blue (B)
- Color code for CMSS 932:
 - A = White = Acceleration signal/power
 - B = Black = Common
- Color code for CMSS 933:
 - A = Red = Acceleration signal/power
 - B = Black = Acceleration and temperature common
 - C = White = Temperature signal
- Dimensions:
 - Conductor: 0,96 mm (0.038 in.) nominal
 - Insulation: 1,40 mm (0.058 in.) nominal
 - Drain wire: 0,61 mm (0.024 in.) nominal
 - Shield: 3,50 mm (0.138 in.) nominal
 - Jacket: 4,80 mm, ±0,1 mm (0.190 in., ±0.005 in.)

Ordering information

CMSS 932-SY-150M Two-conductor, twisted pair, single shield, yellow cable with continuous cable length, 150 m (500 ft.) spool.
CMSS 932-SY-300M Two-conductor, twisted pair, single shield, yellow cable with continuous cable length, 300 m (1 000 ft.) spool.
CMSS 932-DY-150M Two-conductor, twisted pair, double shield, yellow cable with continuous cable length, 150 m (500 ft.) spool.
CMSS 932-SB-150M Two-conductor, twisted pair, single shield, blue cable with continuous cable length, 150 m (500 ft.) spool.
CMSS 933-SY-150M Three-conductor, triad, single shield, yellow cable with continuous cable length, 150 m (500 ft.) spool.