

Rosemount™ 8732EM with Revision 4 Electronics Remote Cable Selection Guide

1.0 Purpose

With the release of an updated intrinsically safe (I.S.) electrode circuit in order to meet the most current hazardous area protection type requirements, new cable has been identified and developed to simplify wiring installation.

2.0 Cable coloring scheme

All cable conductors follow a common color scheme as defined below in [Figure 1-1](#) and [Figure 1-2](#). For the component cable kits, electrode conductors are 20 AWG and the coil conductors are 14 AWG. For the combination cable, electrode conductors are 20 AWG and the coil conductors and drain wires are 18 AWG.

Figure 1-1. Component Cable Coloring Scheme

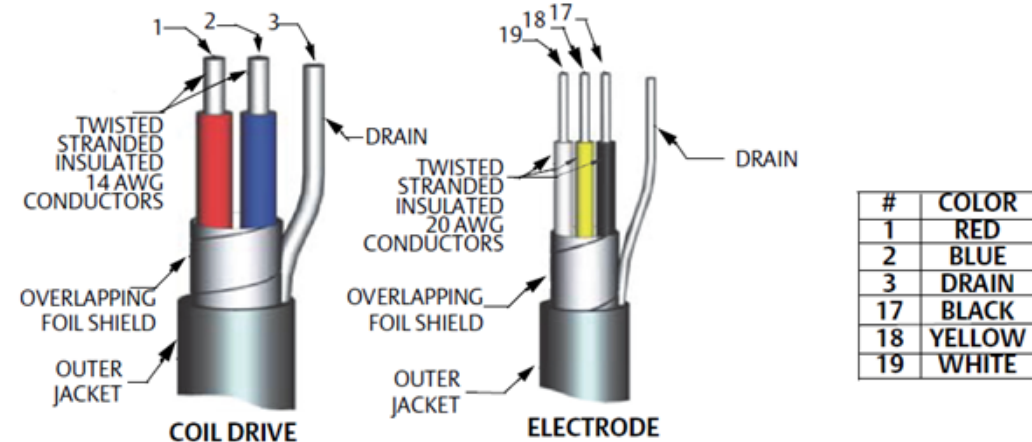
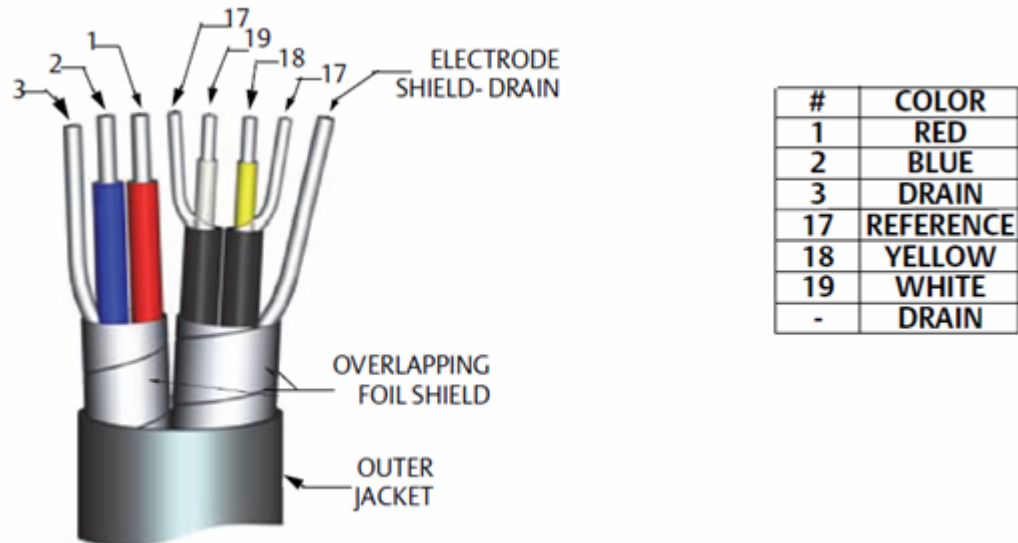


Figure 1-2. Combination Cable Coloring Scheme



3.0 Standardizing the coloring scheme

All outer jackets will now follow a common color scheme as defined below in Table 1-1.

Table 1-1. Visual Identification of Conductors

Outer jacket color	Designation	Temperature limits
Grey	Standard temperature cables, Non-I.S.	-20 to 75 °C (-20 to 80 °C for combo cable)
Blue	Standard and extended temperature I.S. electrode cables	Std. Tmp: -20 to 75 °C Ext. Tmp: -50 to 125 °C
Black (component cable)	Extended temperature cables	-50 to 125 °C
Black (combination cable)	IP68 submersible rated cable	80 °C Dry/60 °C Wet

In addition to standardizing the coloring scheme, additional remote cable options have been identified and released in order to maximize application coverage.

Standard component electrode and coil cables will still be offered as well as the standard combination cable. It is anticipated that these cables will fulfill most application needs. These cables are similar to the cables historically offered.

In applications where an intrinsically safe electrode circuit is required, a new standard temperature I.S. electrode cable has been released that follows industry standard color codes for I.S. circuits (blue outer jacket).

Additionally, because the standard temperature cables may not be suitable for all applications, higher temperature cable options have also been identified.

Lastly, work has been done to identify and release a cable that meets IP68 / Submergence requirements for use without sealed conduit.

These new cables will immediately replace all legacy cable offerings. The component cable kits in the tables below include both the coil and electrode cable. There is no longer a need to order each cable type separately.

For customers with existing applications where this cable is already in place, new cable is not required. An exception to this statement is for applications requiring I.S. electrodes. In these applications it is suggested, but not required, that new cable be purchased and run to comply with National Electrical Code conventions for wire color coding.

Table 1-2, Table 1-3, and Table 1-4 contain all details on part numbers and the valid temperature ranges for the cables. Consult with the customer to ensure proper remote cable selection is acceptable for their application.

Table 1-2. New Standard Temperature Remote Cable Offering

Cable kit #	Description	Cable outer jacket color
08732-0065-0001	Component cable kit in feet	Coil Cable – Grey Electrode Cable – Grey
08732-0065-0002	Component cable kit in meters	Coil Cable – Grey Electrode Cable – Grey
08732-0065-0003	Component cable kit in feet with I.S. Electrode cable	Coil Cable – Grey I.S. Electrode Cable - Blue
08732-0065-0004	Component cable kit in meters with I.S. Electrode cable	Coil Cable – Grey I.S. Electrode Cable - Blue

Table 1-3. New Extended Temperature Remote Cable Offering

Cable kit #	Description	Cable outer jacket color
08732-0065-1001	Component cable kit in feet	Coil Cable – Black Electrode Cable – Black
08732-0065-1002	Component cable kit in meters	Coil Cable – Black Electrode Cable – Black
08732-0065-1003	Component cable kit in feet with I.S. Electrode cable	Coil Cable – Black I.S. Electrode Cable - Blue
08732-0065-1004	Component cable kit in meters with I.S. Electrode cable	Coil Cable – Black I.S. Electrode Cable - Blue

Table 1-4. New Combination Remote Cable Offering


Cable kit #	Description	Cable outer jacket color
08732-0065-2001	Combination cable kit in feet	Grey
08732-0065-2002	Combination cable kit in meters	Grey
08732-0065-3001	Combination Cable kit in feet Submersible to 33 feet continuous (80 °C Dry / 60 °C Wet)	Black
08732-0065-3002	Combination Cable kit in meters Submersible to 33 feet continuous (80 °C Dry / 60 °C Wet)	Black


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