SAMPLE VR2C RS232 CABLE DIAGRAM

(50 FOOT MAXIMUM LENGTH SINGLE RECEIVER CABLE)

MAX LENGTH = 50 FEET
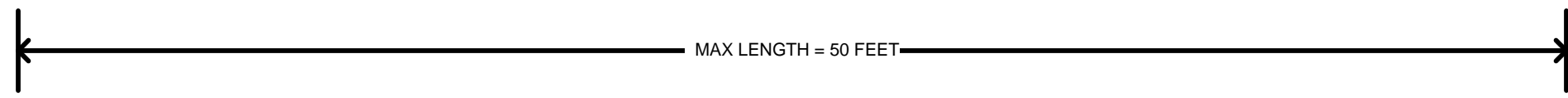
CONNECT TO:

DC POWER

RS232 COMM. EQUIPMENT

CHASSIS GND

LINE PWR- 1
LINE PWR+ 3

RS232 RX 6
RS232 TX 5

SHIELD / DRAIN 7

2 1 8
3   7
4 5 6
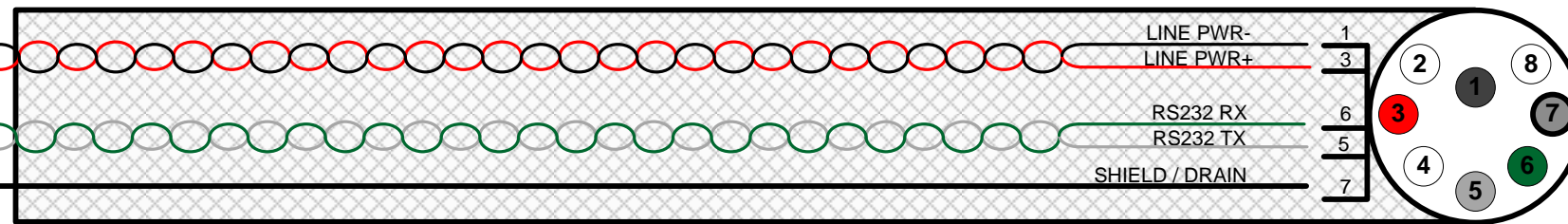
MATES WITH VR2C →

CONNECTOR INFORMATION:
    MANUFACTURER: SUBCONN (MICRO SERIES FAMILY)
    CONNECTOR PN: MCOM8F (FEMALE)
    NEOPRENE BOOT PN: MCOMB
    LOCK COLLAR PN: MCDLSF

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VR2C Underwater Cable Guidelines (Rev 1)
RS232 Cable
DOC-005200-01
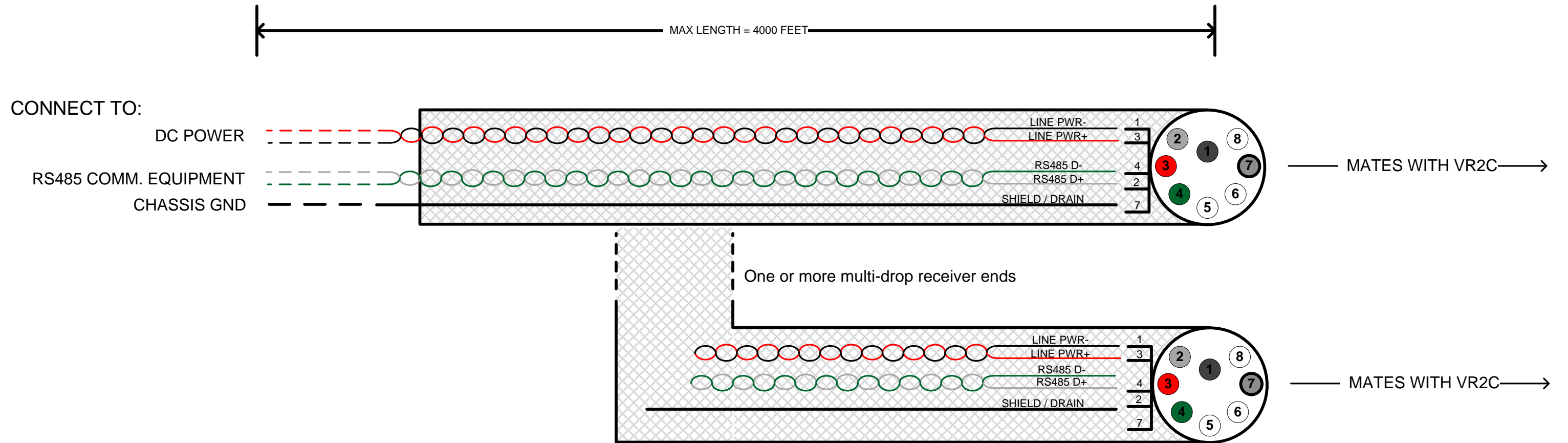**October 11, 2011**   **Sheet 1 of 3**

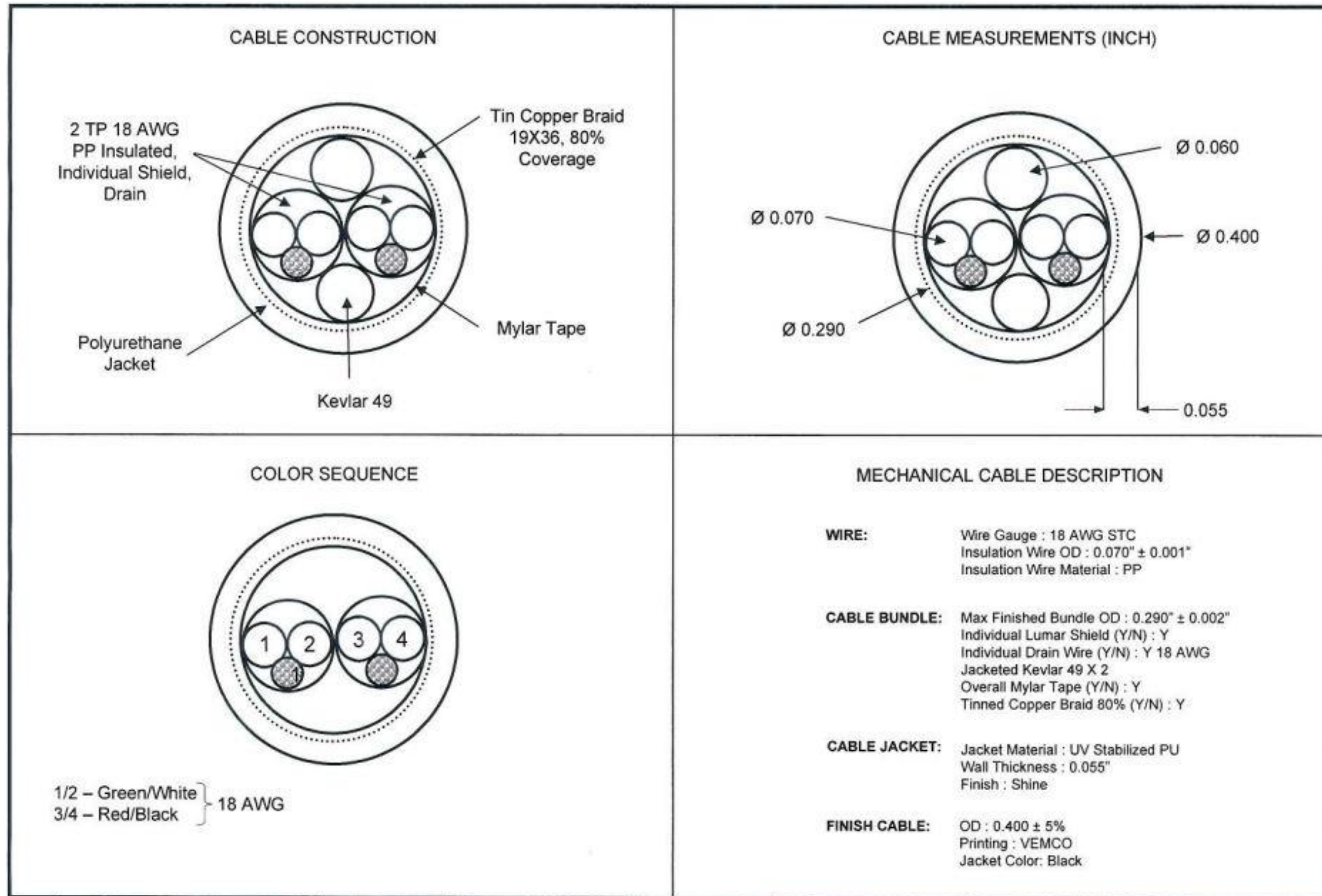**NOTES:**
1. ALL VIEWS SHOW MATING FACE OF CONNECTORS
2. MAXIMUM CABLE LENGTH IS 50 FEET
3. CABLE MUST BE STRAIN RELIEVED CLOSE TO VR2C (BUT DO NOT USE THE VR2C TO STRAIN RELIEVE THE CABLE!)

SAMPLE VR2C RS485 CABLE DIAGRAM

(4000 FOOT MAXIMUM LENGTH MULTI-RECEIVER CABLE)

MAX LENGTH = 4000 FEET

CONNECT TO:

DC POWER

LINE PWR-   1
LINE PWR+   3

RS485 COMM. EQUIPMENT

RS485 D-   4
RS485 D+   2

CHASSIS GND

SHIELD / DRAIN   7

MATES WITH VR2C →

One or more multi-drop receiver ends

LINE PWR-   1
LINE PWR+   3

RS485 D-   4
RS485 D+   2

SHIELD / DRAIN   7

MATES WITH VR2C →

NOTES:
1. ALL VIEWS SHOW MATING FACE OF CONNECTORS
2. MAXIMUM CABLE LENGTH IS 4000 FEET
3. FOR MULTIDROP CABLES, KEEP STUBS LENGTHS AS SMALL AS POSSIBLE
4. CABLE MUST BE STRAIN RELIEVED CLOSE TO VR2C (BUT DO NOT USE THE VR2C TO STRAIN RELIEVE THE CABLE!)

EXAMPLE CABLE SPECIFICATION

CABLE CONSTRUCTION

2 TP 18 AWG PP Insulated, Individual Shield, Drain

Tin Copper Braid 19X36, 80% Coverage

Mylar Tape

Polyurethane Jacket

Kevlar 49

CABLE MEASUREMENTS (INCH)

Ø 0.060

Ø 0.070

Ø 0.400

Ø 0.290

0.055

COLOR SEQUENCE

1   2   3   4

1/2 – Green/White
3/4 – Red/Black
} 18 AWG

MECHANICAL CABLE DESCRIPTION

WIRE:
Wire Gauge : 18 AWG STC
Insulation Wire OD : 0.070" ± 0.001"
Insulation Wire Material : PP

CABLE BUNDLE:
Max Finished Bundle OD : 0.290" ± 0.002"
Individual Lumar Shield (Y/N) : Y
Individual Drain Wire (Y/N) : Y 18 AWG
Jacketed Kevlar 49 X 2
Overall Mylar Tape (Y/N) : Y
Tinned Copper Braid 80% (Y/N) : Y

CABLE JACKET:
Jacket Material : UV Stabilized PU
Wall Thickness : 0.055"
Finish : Shine

FINISH CABLE:
OD : 0.400 ± 5%
Printing : VEMCO
Jacket Color: Black