

# RE-2Y(St)Y/Y<sub>v</sub>-fl PIMF CU/PE/PSCR/OSCR/PVC

POLYETHYLENE INSULATED, INDIVIDUAL AND OVERALL SCREEN  
INSTRUMENTATION CABLES (EN 50288/7-BS 5308/1)



## CONSTRUCTION

|                             |   |
|-----------------------------|---|
| <b>1- CONDUCTOR</b>         | IEC-60228 ;DIN VDE 0295;EN 60228                                      |
| <b>2- INSULATION</b>        | EN 50290-2-23 PE COMPOUND   |
| <b>3- COLOUR CODE</b>       | BS-5308 PART-1 OR BLACK AND WHITE:<br>EACH PAIR NUMBERED              |
| <b>4- INDIVIDUAL SCREEN</b> | PES TAPE, TINNED COPPER DRAIN WIRE<br>AL-PES TAPE                     |
| <b>5- STRANDING</b>         | PAIRWISE, SCREENED PAIRS IN LAYERS<br>AND 1 NUMBER COMMUNICATION CORE |
| <b>6- WRAPPING</b>          | PES TAPE  |
| <b>7- OVERALL SCREEN</b>    | TINNED COPPER DRAIN WIRE; AL-PES TAPE                                 |
| <b>8- SHEATH</b>            | EN 50290-2-22 PVC COMPOUND  |
| <b>9- SHEATH COLOUR</b>     | RAL 5015* BLUE; RAL 9005* BLACK<br>OR RAL 7032 GREY*                  |

■ VERY GOOD EMC\*  
CHARACTERISTICS

■ FLEXIBLE

■ SMALL BENDING RADIUS

■ FLAME RETARDANT AND  
HYDROCARBON RESISTANT

## APPLICATION

- 1- INSTRUMENTATION AND CONTROL ENGINEERING ANALOG AND DIGITAL SIGNAL TRANSMISSION
- 2- PETROLEUM REFINERIES
- 3- PETROCHEMISTRY INDUSTRY
- 4- POWER PLANTS
- 5- NATURAL GAS PUMP STATIONS
- 4- INDOORS AND OUTDOORS, DRY, DAMP AND WET ENVIRONMENTS

**Fl\*** = FLAME RETARDANT OUTER SHEATH

**Fv\*** = REINFORCED OUTER SHEATH

**RAL 5015 BLUE SHEATH\*** AT EX-PROOF CONNECTIONS IN EXPLOSIVE AND IN FLAMMABLE ENVIRONMENTS.

**RAL 9005 BLACK SHEATH\*** PLACES WHERE UV RESISTANCE IS REQUIRED

**RAL 7032 GREY SHEATH\*** INSIDE OF BUILDINGS

## TECHNICAL CHARACTERISTICS

|                                       |  |
|---------------------------------------|--|
| <b>1- CONDUCTOR RESISTANCE</b>        | 0.50 mm <sup>2</sup> = 36 Ω/km<br>0.75 mm <sup>2</sup> = 24.5 Ω/km<br>1.0 mm <sup>2</sup> = 18.1 Ω/km<br>1.30 mm <sup>2</sup> = 13.9 Ω/km<br>1.5 mm <sup>2</sup> = 12.1 Ω/km |
| <b>2- INSULATION RESISTANCE (MIN)</b> | 5000 MΩXkm   |
| <b>3- MUTUAL CAPACITY (MAX)</b>       | 0.50 mm <sup>2</sup> = 100 pF/m<br>0.75 mm <sup>2</sup> = 100 pF/m<br>1.0 mm <sup>2</sup> = 100 pF/m<br>1.30 mm <sup>2</sup> = 100 pF/m<br>1.5 mm <sup>2</sup> = 100 pF/m    |
| <b>4- TEMPERATURE RANGE</b>           | - 30°C~+70°C (FIXED LAYING )   |
| <b>5- FLAME TEST</b>                  | IEC 60332-3-24;VDE 0482-266-2-4<br>EN 50266-2-4/BS EN 50266-2-4  |

|                              |   |
|------------------------------|---|
| <b>6- L/R(RATIO) (MAX)</b>   | 0.50 mm <sup>2</sup> = 25 mH/Ω<br>0.75 mm <sup>2</sup> = 25 mH/Ω<br>1.0 mm <sup>2</sup> = 25 mH/Ω<br>1.30 mm <sup>2</sup> = 40 mH/Ω<br>1.50 mm <sup>2</sup> = 40 mH/Ω |
| <b>7- CURRENT LOAD(25°C)</b> | 0.50 mm <sup>2</sup> = 6.0 A<br>0.75 mm <sup>2</sup> = 13 A<br>1.0 mm <sup>2</sup> = 16 A<br>1.30 mm <sup>2</sup> = 18 A<br>1.5 mm <sup>2</sup> = 20 A                |
| <b>8- OPERATING VOLTAGE</b>  | 300/500 V.  |
| <b>9- TEST VOLTAGE</b>       | Core/Core = 2000 V.<br>Core/Screen = 2000 V.  |
| <b>10- BENDING RADIUS</b>    | 7.5X Cable Ø  |