

# RE-2X(St)H (MULTICORE)

CU/XLPE/OSCR/LSZH



VERY GOOD EMC\* CHARACTERISTICS /  
 FLAME RETARDANT AND HYDROCARBON RESISTANT /  
 SMALL BENDING RADIUS / LOW SMOKE EMISSION /  
 WITHOUT POISONED AND CORROSIVE GASSES



## CONSTRUCTION

- 1 - Conductor** IEC 60228 / DIN VDE 0295 / EN 60228
- 2 - Insulation** EN 50290-2-29 XLPE COMPOUND
- 3 - Colour Code** WHITE INSULATED CORES WITH BLACK NUMBER IMPRINTED IN LAYERS OF OPTIMUM PITCH
- 4 - Stranding** PES TAPE
- 5 - Wrapping** TINNED COPPER DRAIN WIRE; AL-PES TAPE
- 6 - Overall Screen** EN 50290-2-27 LSZH COMPOUND
- 7 - Sheath** RAL 5015\* BLUE; RAL 9005\* BLACK OR RAL 7001\* GREY
- 8 - Sheath Colour**

## APPLICATION

-Indoor environments intensely populated by people where there is electromagnetic interference.

1. Instrumentation and control engineering analog and digital signal transmission
2. Petroleum refineries
3. Petrochemistry industry
4. Power plants
5. Natural gas pump stations
6. Indoors and outdoors, dry, damp and wet environments
7. Gas Stations
8. Water Conveyance Systems

## NOTES

**EMC\*:** Electromagnetic compatibility  
**Ral 5015 blue sheath\*:** At ex-proof connections in explosive and in flammable environments, intrinsically safe  
**Ral 9005 black sheath\*:** Places where UV resistance is required  
**Ral 7001 grey sheath\*:** Inside of buildings

## TECHNICAL CHARACTERISTICS

| CONDUCTOR RESISTANCE CLASS2(MAX) | INSULATION RESISTANCE (MIN) | MUTUAL CAPACITY (MAX) | TEMPERATURE RANGE | FLAME PROPAGATION |
|----------------------------------|-----------------------------|-----------------------|-------------------|-------------------|
| mm <sup>2</sup> Ω/km             | MΩxKm                       | mm <sup>2</sup> pF/m  |                   |                   |
| 0,50 36                          |                             | 0,50 115              |                   | IEC 60332-3-24    |
| 0,75 24,5                        |                             | 0,75 115              | -30°C-+90°C       | VDE0482-332-3-24  |
| 1,0 18,1                         | 5000                        | 1,0 115               | (FIXED LAYING)    | EN 60332-3-24     |
| 1,5 12,1                         |                             | 1,5 115               |                   | BS EN 60332-3-24  |
| 2,5 7,41                         |                             | 2,5 115               |                   |                   |

| L/R(RATIO) (MAX)     | CURRENT LOAD(25°C) | OPERATING VOLTAGE | TEST VOLTAGE     | BENDING RADIUS |
|----------------------|--------------------|-------------------|------------------|----------------|
| mm <sup>2</sup> μH/Ω | mm <sup>2</sup> A  |                   |                  |                |
| 0,50 25              | 0,50 6,0           |                   | Cr./Cr.=2000 V   |                |
| 0,75 25              | 0,75 13            | 300/500 V.        | Cr./Scrm.=2000 V | 7,5 X Cable Ø  |
| 1,0 25               | 1,0 16             |                   |                  |                |
| 1,5 40               | 1,5 20             |                   |                  |                |
| 2,5 60               | 2,5 25             |                   |                  |                |

| SMOKE DENSITY   | TEST ON CORROSIVENESS OF COMBUSTION GASES | HALOGEN FREE TEST |
|-----------------|---|-------------------|
| IEC 61034-2     | IEC 60754-2                               | IEC 60754-1       |
| VDE 0482-1034-2 | VDE 0482-267-2-3                          | VDE 0482-267-2-1  |
| EN 61034-2      | EN 50267-2-3                              | EN 50267-2-1      |
| BS EN 61034-2   | BS EN 50267-2-3                           | BS EN 50267-2-1   |

## DESIGN STANDARDS

PAS 5308-1  
 EN 50288-7

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| CODE NR.  | NUMBER OF CORE CROSS SECTION (mm <sup>2</sup> ) | OVERALL DIAMETER (mm) | COPPER WEIGHT (kg/km) | APPROX. WEIGHT (kg/km) | STANDART LENGTH (mt) |
|-----------|---|-----------------------|-----------------------|------------------------|----------------------|
| 380250020 | 2 x 0,50  | 5,60                  | 14                    | 44                     | 500/1000             |
| 380250030 | 3 x 0,50  | 5,80                  | 18                    | 49                     | 500/1000             |
| 380250040 | 4 x 0,50  | 6,30                  | 23                    | 57                     | 500/1000             |
| 380250050 | 5 x 0,50  | 6,90                  | 28                    | 67                     | 500/1000             |
| 380250060 | 6 x 0,50  | 7,40                  | 32                    | 76                     | 500/1000             |
| 380250070 | 7 x 0,50  | 7,40                  | 37                    | 82                     | 500/1000             |
| 380250100 | 10 x 0,50                                       | 9,40                  | 51                    | 112                    | 500/1000             |
| 380250120 | 12 x 0,50                                       | 9,60                  | 92                    | 132                    | 500/1000             |
| 380250190 | 19 x 0,50                                       | 11,50                 | 115                   | 197                    | 500/1000             |
| 380250240 | 24 x 0,50                                       | 13,20                 | 144                   | 243                    | 500/1000             |
| 380275020 | 2 x 0,75  | 6,00                  | 19                    | 49                     | 500/1000             |
| 380275030 | 3 x 0,75  | 6,20                  | 26                    | 58                     | 500/1000             |
| 380275040 | 4 x 0,75  | 6,60                  | 33                    | 71                     | 500/1000             |
| 380275050 | 5 x 0,75  | 7,30                  | 40                    | 85                     | 500/1000             |
| 380275060 | 6 x 0,75  | 7,90                  | 47                    | 100                    | 500/1000             |
| 380275070 | 7 x 0,75  | 7,90                  | 54                    | 107                    | 500/1000             |
| 380275100 | 10 x 0,75                                       | 10,10                 | 75                    | 150                    | 500/1000             |
| 380275120 | 12 x 0,75                                       | 10,40                 | 89                    | 170                    | 500/1000             |
| 380275190 | 19 x 0,75                                       | 12,30                 | 138                   | 255                    | 500/1000             |
| 380275240 | 24 x 0,75                                       | 14,40                 | 173                   | 320                    | 500/1000             |
| 380201020 | 2 x 1   | 6,40                  | 23                    | 57                     | 500/1000             |
| 380201030 | 3 x 1   | 6,70                  | 32                    | 69                     | 500/1000             |
| 380201040 | 4 x 1   | 7,20                  | 41                    | 87                     | 500/1000             |
| 380201050 | 5 x 1   | 7,40                  | 50                    | 96                     | 500/1000             |
| 380201060 | 6 x 1   | 8,70                  | 60                    | 119                    | 500/1000             |
| 380201070 | 7 x 1   | 8,70                  | 69                    | 128                    | 500/1000             |
| 380201100 | 10 x 1  | 11,10                 | 97                    | 192                    | 500/1000             |
| 380201120 | 12 x 1  | 11,50                 | 115                   | 216                    | 500/1000             |
| 380201190 | 19 x 1  | 13,40                 | 180                   | 315                    | 500/1000             |
| 380201240 | 24 x 1  | 15,70                 | 225                   | 398                    | 500/1000             |
| 380215020 | 2 x 1,5   | 7,00                  | 33                    | 69                     | 500/1000             |
| 380215030 | 3 x 1,5   | 7,40                  | 47                    | 89                     | 500/1000             |
| 380215040 | 4 x 1,5   | 8,00                  | 61                    | 109                    | 500/1000             |
| 380215050 | 5 x 1,5   | 9,00                  | 76                    | 134                    | 500/1000             |
| 380215060 | 6 x 1,5   | 9,70                  | 90                    | 160                    | 500/1000             |
| 380215070 | 7 x 1,5   | 9,70                  | 104                   | 174                    | 500/1000             |
| 380215100 | 10 x 1,5  | 12,40                 | 147                   | 245                    | 500/1000             |
| 380215120 | 12 x 1,5  | 12,80                 | 175                   | 285                    | 500/1000             |
| 380215190 | 19 x 1,5  | 15,10                 | 274                   | 435                    | 500/1000             |
| 380215240 | 24 x 1,5  | 17,80                 | 345                   | 544                    | 500/1000             |
| 380225020 | 2 x 2,5   | 8,50                  | 49                    | 98                     | 500/1000             |
| 380225030 | 3 x 2,5   | 8,80                  | 71                    | 127                    | 500/1000             |
| 380225040 | 4 x 2,5   | 9,60                  | 93                    | 159                    | 500/1000             |
| 380225050 | 5 x 2,5   | 10,60                 | 115                   | 195                    | 500/1000             |
| 380225060 | 6 x 2,5   | 11,70                 | 137                   | 236                    | 500/1000             |
| 380225070 | 7 x 2,5   | 11,70                 | 159                   | 260                    | 500/1000             |
| 380225100 | 10 x 2,5  | 15,00                 | 225                   | 364                    | 500/1000             |
| 380225120 | 12 x 2,5  | 15,40                 | 267                   | 428                    | 500/1000             |
| 380225190 | 19 x 2,5  | 18,30                 | 423                   | 650                    | 500/1000             |
| 380225240 | 24 x 2,5  | 21,50                 | 533                   | 810                    | 500/1000             |