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| 1271050 | DATA SHEET |  |
| Valid from: 17.08.2023 | ÖLFLEX® INSTRUM RE-Y(ST)Y PiMF | |

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*Illustrations are not to scale and do not represent detailed images of the respective products.

1. Application

ÖLFLEX® INSTRUM RE-Y(ST)Y PiMF are generally used in industrial process manufacturing plants for communication, data and voice transmission signals and services, typically in oil and gas industry. The unarmoured version are generally used for indoor installations and suitable for wet and damp areas.

The cable in Blue colour outer sheath is suitable for use with Group 2 Intrinsically Safe “IS” systems in hazardous areas where the voltage range is < 50 VAC / < 75 VDC. Due to the heat resistant PVC (V-90HT) insulation this cable can be used at a max. operating temperature of 105°C†.

2. Reference Standard(s)

Based on EN 50288-7

3. Cable Construction

- 3.1. Conductor : Stranded plain annealed copper wire acc. to IEC 60228, Class 2
- 3.2. Core Insulation : Extruded PVC (V-90HT) compound
- 3.3. Core Colours : Pair – BK/WH
Multipair – BK/WH with number marking
- 3.4. Core Laying Up : Cores are twisted into pair formation
- 3.5. Wrapping : Where necessary, a polyester tape or non-woven tape may be used.
- 3.6. Individual Screen : Aluminium Polyester tape with metallic side downward in contact with 0.5 mm² tinned copper drain wire
- 3.7. Wrapping : Where necessary, a polyester tape or non-woven tape may be used.
- 3.8. Overall Screen : Aluminium Polyester tape with metallic side downward in contact with 0.5 mm² tinned copper drain wire
- 3.9. Outer Sheath : Extruded PVC (V-90HT) compound
- 3.10. Sheath Colour : Black or Blue

4. Technical Data

- 4.1. Rated Voltage : 500 V AC
< 50V AC / < 75V DC for Intrinsically Safe “IS” circuits application
- 4.2. Test Voltage : 2.0 kV AC
- 4.3. Conductor Resistance : In acc. to EN 50288-7
- 4.4. Spec. Insulation Res. : > 10 MΩ/km
- 4.5. Mutual Capacitance : < 250 nF/km
- 4.6. L/R Ratio : < 25 μH/Ω for up to 1.0 mm²
< 40 μH/Ω for 1.5 mm²
< 60 μH/Ω for 2.5 mm²
- 4.7. Min. Bending Radius : 6 x cable diameter
- 4.8. Temperature Range : -30°C up to +105°C†
- 4.9. Flame Retardant : In acc. to IEC 60332-3-24
- 4.10. EU Directive : 2014/35/EU (Low Voltage Directive), 2011/65/EU (RoHS)
- 4.11. CE Mark : Yes

Note: Blue colour outer sheath is for Intrinsically Safe “IS” circuits application where the voltage range is <50VAC/<75VDC.

† - can be operated at a temperature of 105°C for an average of 500 hours per annum. (Ref. AS/NZS 3808 Standard).

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5. Dimensional Data

| Part No. | No. of core/pair and conductor cross-section mm ² | Approx. Cable OD mm | Outer Sheath Colour - | Approx. Cable Wt. kg/km |
|----------|---|---------------------------|-----------------------------|-------------------------------|
| 1271050 | 2x2x0.5 | 10.8 | Black | 116.0 |
| 1271051 | 2x2x0.5 | 10.8 | Blue | 116.0 |
| 1271074 | 3x2x0.5 | 11.4 | Black | 155.0 |
| 1271075 | 3x2x0.5 | 11.4 | Blue | 155.0 |
| 1271052 | 4x2x0.5 | 12.4 | Black | 202.0 |
| 1271053 | 4x2x0.5 | 12.4 | Blue | 202.0 |
| 1271076 | 5x2x0.5 | 13.6 | Black | 238.0 |
| 1271077 | 5x2x0.5 | 13.6 | Blue | 238.0 |
| 1271054 | 6x2x0.5 | 14.7 | Black | 275.0 |
| 1271055 | 6x2x0.5 | 14.7 | Blue | 275.0 |
| 1271056 | 8x2x0.5 | 16.7 | Black | 336.0 |
| 1271057 | 8x2x0.5 | 16.7 | Blue | 336.0 |
| 1271058 | 10x2x0.5 | 18.9 | Black | 418.0 |
| 1271059 | 10x2x0.5 | 18.9 | Blue | 418.0 |
| 1271060 | 12x2x0.5 | 19.5 | Black | 490.0 |
| 1271061 | 12x2x0.5 | 19.5 | Blue | 490.0 |
| 1271072 | 16x2x0.5 | 21.7 | Black | 702.0 |
| 1271073 | 16x2x0.5 | 21.7 | Blue | 702.0 |
| 1271064 | 20x2x0.5 | 24.5 | Black | 776.0 |
| 1271065 | 20x2x0.5 | 24.5 | Blue | 776.0 |
| 1271066 | 24x2x0.5 | 27.1 | Black | 897.0 |
| 1271067 | 24x2x0.5 | 27.1 | Blue | 897.0 |
| 1271068 | 30x2x0.5 | 28.6 | Black | 1078.0 |
| 1271069 | 30x2x0.5 | 28.6 | Blue | 1078.0 |
| 1271070 | 36x2x0.5 | 31.0 | Black | 1330.0 |
| 1271071 | 36x2x0.5 | 31.0 | Blue | 1330.0 |

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| Part No. | No. of core/pair and conductor cross-section mm ² | Approx. Cable OD mm | Outer Sheath Colour - | Approx. Cable Wt. kg/km |
|----------|---|------------------------|--------------------------|----------------------------|
| 1271080 | 2x2x0.75 | 11.6 | Black | 138.0 |
| 1271081 | 2x2x0.75 | 11.6 | Blue | 138.0 |
| 1271104 | 3x2x0.75 | 12.3 | Black | 188.0 |
| 1271105 | 3x2x0.75 | 12.3 | Blue | 188.0 |
| 1271082 | 4x2x0.75 | 13.5 | Black | 252.0 |
| 1271083 | 4x2x0.75 | 13.5 | Blue | 252.0 |
| 1271106 | 5x2x0.75 | 14.6 | Black | 277.0 |
| 1271107 | 5x2x0.75 | 14.6 | Blue | 277.0 |
| 1271084 | 6x2x0.75 | 16.1 | Black | 330.0 |
| 1271085 | 6x2x0.75 | 16.1 | Blue | 330.0 |
| 1271086 | 8x2x0.75 | 18.0 | Black | 402.0 |
| 1271087 | 8x2x0.75 | 18.0 | Blue | 402.0 |
| 1271088 | 10x2x0.75 | 20.5 | Black | 501.0 |
| 1271089 | 10x2x0.75 | 20.5 | Blue | 501.0 |
| 1271090 | 12x2x0.75 | 21.3 | Black | 583.0 |
| 1271091 | 12x2x0.75 | 21.3 | Blue | 583.0 |
| 1271102 | 16x2x0.75 | 23.8 | Black | 810.0 |
| 1271103 | 16x2x0.75 | 23.8 | Blue | 810.0 |
| 1271094 | 20x2x0.75 | 26.7 | Black | 957.0 |
| 1271095 | 20x2x0.75 | 26.7 | Blue | 957.0 |
| 1271096 | 24x2x0.75 | 29.5 | Black | 1111.0 |
| 1271097 | 24x2x0.75 | 29.5 | Blue | 1111.0 |
| 1271098 | 30x2x0.75 | 31.2 | Black | 1353.0 |
| 1271099 | 30x2x0.75 | 31.2 | Blue | 1353.0 |
| 1271100 | 36x2x0.75 | 33.9 | Black | 1661.0 |
| 1271101 | 36x2x0.75 | 33.9 | Blue | 1661.0 |

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|----------|---|------------------------|--------------------------|----------------------------|
| 1271120 | 2x2x1 | 12.2 | Black | 172.0 |
| 1271121 | 2x2x1 | 12.2 | Blue | 172.0 |
| 1271144 | 3x2x1 | 13.1 | Black | 227.0 |
| 1271145 | 3x2x1 | 13.1 | Blue | 227.0 |
| 1271122 | 4x2x1 | 14.3 | Black | 315.0 |
| 1271123 | 4x2x1 | 14.3 | Blue | 315.0 |
| 1271146 | 5x2x1 | 15.7 | Black | 365.0 |
| 1271147 | 5x2x1 | 15.7 | Blue | 365.0 |
| 1271124 | 6x2x1 | 17.1 | Black | 413.0 |
| 1271125 | 6x2x1 | 17.1 | Blue | 413.0 |
| 1271126 | 8x2x1 | 19.6 | Black | 502.0 |
| 1271127 | 8x2x1 | 19.6 | Blue | 502.0 |
| 1271128 | 10x2x1 | 22.0 | Black | 626.0 |
| 1271129 | 10x2x1 | 22.0 | Blue | 626.0 |
| 1271130 | 12x2x1 | 22.7 | Black | 729.0 |
| 1271131 | 12x2x1 | 22.7 | Blue | 729.0 |
| 1271142 | 16x2x1 | 25.3 | Black | 998.0 |
| 1271143 | 16x2x1 | 25.3 | Blue | 998.0 |
| 1271134 | 20x2x1 | 28.3 | Black | 1196.0 |
| 1271135 | 20x2x1 | 28.3 | Blue | 1196.0 |
| 1271136 | 24x2x1 | 31.7 | Black | 1389.0 |
| 1271137 | 24x2x1 | 31.7 | Blue | 1389.0 |
| 1271138 | 30x2x1 | 33.5 | Black | 1691.0 |
| 1271139 | 30x2x1 | 33.5 | Blue | 1691.0 |
| 1271140 | 36x2x1 | 36.4 | Black | 2076.0 |
| 1271141 | 36x2x1 | 36.4 | Blue | 2076.0 |

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|----------|---|------------------------|--------------------------|----------------------------|
| 1271160 | 2x2x1.5 | 13.5 | Black | 193.0 |
| 1271161 | 2x2x1.5 | 13.5 | Blue | 193.0 |
| 1271182 | 3x2x1.5 | 14.3 | Black | 273.0 |
| 1271183 | 3x2x1.5 | 14.3 | Blue | 273.0 |
| 1271162 | 4x2x1.5 | 15.8 | Black | 369.0 |
| 1271163 | 4x2x1.5 | 15.8 | Blue | 369.0 |
| 1271184 | 5x2x1.5 | 17.2 | Black | 412.0 |
| 1271185 | 5x2x1.5 | 17.2 | Blue | 412.0 |
| 1271164 | 6x2x1.5 | 18.9 | Black | 468.0 |
| 1271165 | 6x2x1.5 | 18.9 | Blue | 468.0 |
| 1271166 | 8x2x1.5 | 21.4 | Black | 605.0 |
| 1271167 | 8x2x1.5 | 21.4 | Blue | 605.0 |
| 1271168 | 10x2x1.5 | 24.3 | Black | 748.0 |
| 1271169 | 10x2x1.5 | 24.3 | Blue | 748.0 |
| 1271170 | 12x2x1.5 | 25.1 | Black | 880.0 |
| 1271171 | 12x2x1.5 | 25.1 | Blue | 880.0 |
| 1271186 | 16x2x1.5 | 28.0 | Black | 1288.0 |
| 1271187 | 16x2x1.5 | 28.0 | Blue | 1288.0 |
| 1271174 | 20x2x1.5 | 31.5 | Black | 1408.0 |
| 1271175 | 20x2x1.5 | 31.5 | Blue | 1408.0 |
| 1271176 | 24x2x1.5 | 35.1 | Black | 1639.0 |
| 1271177 | 24x2x1.5 | 35.1 | Blue | 1639.0 |
| 1271178 | 30x2x1.5 | 37.4 | Black | 2008.0 |
| 1271179 | 30x2x1.5 | 37.4 | Blue | 2008.0 |
| 1271180 | 36x2x1.5 | 40.6 | Black | 2453.0 |
| 1271181 | 36x2x1.5 | 40.6 | Blue | 2453.0 |

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|----------|---|------------------------|--------------------------|----------------------------|
| 1271200 | 2x2x2.5 | 15.9 | Black | 259.0 |
| 1271201 | 2x2x2.5 | 15.9 | Blue | 259.0 |
| 1271222 | 3x2x2.5 | 16.9 | Black | 291.0 |
| 1271223 | 3x2x2.5 | 16.9 | Blue | 291.0 |
| 1271202 | 4x2x2.5 | 18.7 | Black | 379.0 |
| 1271203 | 4x2x2.5 | 18.7 | Blue | 379.0 |
| 1271224 | 5x2x2.5 | 20.4 | Black | 437.0 |
| 1271225 | 5x2x2.5 | 20.4 | Blue | 437.0 |
| 1271204 | 6x2x2.5 | 22.4 | Black | 666.0 |
| 1271205 | 6x2x2.5 | 22.4 | Blue | 666.0 |
| 1271206 | 8x2x2.5 | 25.4 | Black | 847.0 |
| 1271207 | 8x2x2.5 | 25.4 | Blue | 847.0 |
| 1271208 | 10x2x2.5 | 28.8 | Black | 1061.0 |
| 1271209 | 10x2x2.5 | 28.8 | Blue | 1061.0 |
| 1271210 | 12x2x2.5 | 30.2 | Black | 1249.0 |
| 1271211 | 12x2x2.5 | 30.2 | Blue | 1249.0 |
| 1271226 | 16x2x2.5 | 33.6 | Black | 1735.0 |
| 1271227 | 16x2x2.5 | 33.6 | Blue | 1735.0 |
| 1271214 | 20x2x2.5 | 37.9 | Black | 1986.0 |
| 1271215 | 20x2x2.5 | 37.9 | Blue | 1986.0 |
| 1271216 | 24x2x2.5 | 42.2 | Black | 2371.0 |
| 1271217 | 24x2x2.5 | 42.2 | Blue | 2371.0 |
| 1271218 | 30x2x2.5 | 45.0 | Black | 2849.0 |
| 1271219 | 30x2x2.5 | 45.0 | Blue | 2849.0 |
| 1271220 | 36x2x2.5 | 49.0 | Black | 3399.0 |
| 1271221 | 36x2x2.5 | 49.0 | Blue | 3399.0 |

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