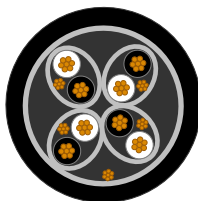


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*Illustrations are not to scale and do not represent detailed images of the respective products.

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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Part No.	No. of core/pair and conductor cross-section mm ²	Approx. Cable OD mm	Outer Sheath Colour -	Approx. Cable Wt. kg/km
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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Part No.	No. of core/pair and conductor cross-section mm ²	Approx. Cable OD mm	Outer Sheath Colour -	Approx. Cable Wt. kg/km
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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Part No.	No. of core/pair and conductor cross-section mm ²	Approx. Cable OD mm	Outer Sheath Colour -	Approx. Cable Wt. kg/km
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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