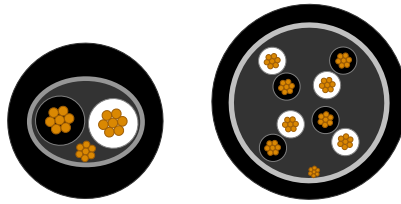


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*Illustrations are not to scale and do not represent detailed images of the respective products.

1. Application

ÖLFLEX® INSTRUM RE-Y(ST)Y 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. Multicore cables are specially designed for shutdown and control system application.

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
Multicore, 4-core and above – BK with number marking
- 3.4. Core Laying Up : Cores are twisted into pair, triad, or quad formation
- 3.5. Wrapping : Where necessary, a polyester tape or non-woven tape may be used.
- 3.6. Overall Screen : Aluminium Polyester tape with metallic side downward in contact with 0.5 mm² tinned copper drain wire
- 3.7. Outer Sheath : Extruded PVC (V-90HT) compound
- 3.8. 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
Pair/Multipair				
1270800	1x2x0.5	6.9	Black	60.0
1270801	1x2x0.5	6.9	Blue	60.0
1270802	2x2x0.5	9.8	Black	86.0
1270803	2x2x0.5	9.8	Blue	86.0
1270824	3x2x0.5	10.6	Black	125.0
1270825	3x2x0.5	10.6	Blue	125.0
1270804	4x2x0.5	11.5	Black	160.0
1270805	4x2x0.5	11.5	Blue	160.0
1270828	5x2x0.5	12.5	Black	174.0
1270829	5x2x0.5	12.5	Blue	174.0
1270806	6x2x0.5	13.7	Black	224.0
1270807	6x2x0.5	13.7	Blue	224.0
1270808	8x2x0.5	15.2	Black	270.0
1270809	8x2x0.5	15.2	Blue	270.0
1270810	10x2x0.5	17.4	Black	334.0
1270811	10x2x0.5	17.4	Blue	334.0
1270812	12x2x0.5	17.9	Black	391.0
1270813	12x2x0.5	17.9	Blue	391.0
1270826	16x2x0.5	20.0	Black	520.0
1270827	16x2x0.5	20.0	Blue	520.0
1270816	20x2x0.5	20.8	Black	604.0
1270817	20x2x0.5	20.8	Blue	604.0
1270818	24x2x0.5	22.4	Black	713.0
1270819	24x2x0.5	22.4	Blue	713.0
1270820	30x2x0.5	26.4	Black	863.0
1270821	30x2x0.5	26.4	Blue	863.0
1270822	36x2x0.5	28.6	Black	960.0
1270823	36x2x0.5	28.6	Blue	960.0

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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
1270840	1x2x0.75	7.3	Black	69.0
1270841	1x2x0.75	7.3	Blue	69.0
1270842	2x2x0.75	10.7	Black	104.0
1270843	2x2x0.75	10.7	Blue	104.0
1270866	3x2x0.75	11.3	Black	118.0
1270867	3x2x0.75	11.3	Blue	118.0
1270844	4x2x0.75	12.3	Black	187.0
1270845	4x2x0.75	12.3	Blue	187.0
1270868	5x2x0.75	13.6	Black	223.0
1270869	5x2x0.75	13.6	Blue	223.0
1270846	6x2x0.75	14.7	Black	282.0
1270847	6x2x0.75	14.7	Blue	282.0
1270848	8x2x0.75	16.7	Black	345.0
1270849	8x2x0.75	16.7	Blue	345.0
1270850	10x2x0.75	19.0	Black	426.0
1270851	10x2x0.75	19.0	Blue	426.0
1270852	12x2x0.75	19.6	Black	495.0
1270853	12x2x0.75	19.6	Blue	495.0
1270864	16x2x0.75	21.8	Black	685.0
1270865	16x2x0.75	21.8	Blue	685.0
1270856	20x2x0.75	24.5	Black	782.0
1270857	20x2x0.75	24.5	Blue	782.0
1270858	24x2x0.75	27.2	Black	909.0
1270859	24x2x0.75	27.2	Blue	909.0
1270860	30x2x0.75	28.8	Black	1059.0
1270861	30x2x0.75	28.8	Blue	1059.0
1270862	36x2x0.75	31.2	Black	1363.0
1270863	36x2x0.75	31.2	Blue	1363.0

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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
1270900	1x2x1	7.9	Black	92.0
1270901	1x2x1	7.9	Blue	92.0
1270902	2x2x1	11.3	Black	129.0
1270903	2x2x1	11.3	Blue	129.0
1270926	3x2x1	12.0	Black	155.0
1270927	3x2x1	12.0	Blue	155.0
1270904	4x2x1	13.2	Black	234.0
1270905	4x2x1	13.2	Blue	234.0
1270928	5x2x1	14.4	Black	273.0
1270929	5x2x1	14.4	Blue	273.0
1270906	6x2x1	15.9	Black	352.0
1270907	6x2x1	15.9	Blue	352.0
1270908	8x2x1	17.7	Black	431.0
1270909	8x2x1	17.7	Blue	431.0
1270910	10x2x1	20.1	Black	532.0
1270911	10x2x1	20.1	Blue	532.0
1270912	12x2x1	20.8	Black	618.0
1270913	12x2x1	20.8	Blue	618.0
1270924	16x2x1	23.2	Black	844.0
1270925	16x2x1	23.2	Blue	844.0
1270916	20x2x1	26.0	Black	978.0
1270917	20x2x1	26.0	Blue	978.0
1270918	24x2x1	29.0	Black	1136.0
1270919	24x2x1	29.0	Blue	1136.0
1270920	30x2x1	30.9	Black	1300.0
1270921	30x2x1	30.9	Blue	1300.0
1270922	36x2x1	33.5	Black	1703.0
1270923	36x2x1	33.5	Blue	1703.0

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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
1270950	1x2x1.5	8.5	Black	104.0
1270951	1x2x1.5	8.5	Blue	104.0
1270952	2x2x1.5	12.3	Black	155.0
1270953	2x2x1.5	12.3	Blue	155.0
1270978	3x2x1.5	13.2	Black	176.0
1270979	3x2x1.5	13.2	Blue	176.0
1270954	4x2x1.5	14.4	Black	290.0
1270955	4x2x1.5	14.4	Blue	290.0
1270974	5x2x1.5	16.0	Black	311.0
1270975	5x2x1.5	16.0	Blue	311.0
1270956	6x2x1.5	17.4	Black	408.0
1270957	6x2x1.5	17.4	Blue	408.0
1270958	8x2x1.5	19.6	Black	518.0
1270959	8x2x1.5	19.6	Blue	518.0
1270960	10x2x1.5	22.4	Black	650.0
1270961	10x2x1.5	22.4	Blue	650.0
1270962	12x2x1.5	23.1	Black	759.0
1270963	12x2x1.5	23.1	Blue	759.0
1270976	16x2x1.5	25.8	Black	999.0
1270977	16x2x1.5	25.8	Blue	999.0
1270966	20x2x1.5	28.9	Black	1219.0
1270967	20x2x1.5	28.9	Blue	1219.0
1270968	24x2x1.5	32.4	Black	1443.0
1270969	24x2x1.5	32.4	Blue	1443.0
1270970	30x2x1.5	34.3	Black	1783.0
1270971	30x2x1.5	34.3	Blue	1783.0
1270972	36x2x1.5	37.4	Black	2122.0
1270973	36x2x1.5	37.4	Blue	2122.0

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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
1271000	1x2x2.5	9.8	Black	132.0
1271001	1x2x2.5	9.8	Blue	132.0
1271002	2x2x2.5	14.6	Black	226.0
1271003	2x2x2.5	14.6	Blue	226.0
1271026	3x2x2.5	15.5	Black	258.0
1271027	3x2x2.5	15.5	Blue	258.0
1271004	4x2x2.5	17.1	Black	372.0
1271005	4x2x2.5	17.1	Blue	372.0
1271006	6x2x2.5	20.6	Black	583.0
1271007	6x2x2.5	20.6	Blue	583.0
1271008	8x2x2.5	23.4	Black	743.0
1271009	8x2x2.5	23.4	Blue	743.0
1271010	10x2x2.5	26.9	Black	935.0
1271011	10x2x2.5	26.9	Blue	935.0
1271012	12x2x2.5	27.8	Black	1111.0
1271013	12x2x2.5	27.8	Blue	1111.0
1271024	16x2x2.5	31.0	Black	1420.0
1271025	16x2x2.5	31.0	Blue	1420.0
1271016	20x2x2.5	35.0	Black	1804.0
1271017	20x2x2.5	35.0	Blue	1804.0
1271018	24x2x2.5	39.0	Black	2112.0
1271019	24x2x2.5	39.0	Blue	2112.0
1271020	30x2x2.5	41.5	Black	2563.0
1271021	30x2x2.5	41.5	Blue	2563.0
1271022	36x2x2.5	45.0	Black	3080.0
1271023	36x2x2.5	45.0	Blue	3080.0

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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
Multicore				
1271250	3x0.5	7.2	Black	51.0
1271251	3x0.5	7.2	Blue	51.0
1271252	4x0.5	8.0	Black	63.0
1271253	4x0.5	8.0	Blue	63.0
1271254	6x0.5	9.2	Black	89.0
1271255	6x0.5	9.2	Blue	89.0
1271268	8x0.5	10.4	Black	110.0
1271269	8x0.5	10.4	Blue	110.0
1271256	10x0.5	11.5	Black	135.0
1271257	10x0.5	11.5	Blue	135.0
1271270	12x0.5	11.9	Black	158.0
1271271	12x0.5	11.9	Blue	158.0
1271258	16x0.5	13.2	Black	198.0
1271259	16x0.5	13.2	Blue	198.0
1271260	20x0.5	14.5	Black	248.0
1271261	20x0.5	14.5	Blue	248.0
1271262	24x0.5	16.2	Black	292.0
1271263	24x0.5	16.2	Blue	292.0
1271264	30x0.5	17.0	Black	360.0
1271265	30x0.5	17.0	Blue	360.0
1271266	40x0.5	19.2	Black	469.0
1271267	40x0.5	19.2	Blue	469.0

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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
1271280	3x0.75	7.9	Black	61.0
1271281	3x0.75	7.9	Blue	61.0
1271282	4x0.75	8.5	Black	76.0
1271283	4x0.75	8.5	Blue	76.0
1271284	6x0.75	9.8	Black	110.0
1271285	6x0.75	9.8	Blue	110.0
1271248	8x0.75	11.1	Black	140.0
1271249	8x0.75	11.1	Blue	140.0
1271286	10x0.75	12.4	Black	173.0
1271287	10x0.75	12.4	Blue	173.0
1271298	12x0.75	12.8	Black	200.0
1271299	12x0.75	12.8	Blue	200.0
1271288	16x0.75	14.2	Black	255.0
1271289	16x0.75	14.2	Blue	255.0
1271290	20x0.75	15.9	Black	315.0
1271291	20x0.75	15.9	Blue	315.0
1271292	24x0.75	17.4	Black	380.0
1271293	24x0.75	17.4	Blue	380.0
1271294	30x0.75	18.6	Black	457.0
1271295	30x0.75	18.6	Blue	457.0
1271296	40x0.75	20.7	Black	598.0
1271297	40x0.75	20.7	Blue	598.0

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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
1271300	3x1.5	9.0	Black	95.0
1271301	3x1.5	9.0	Blue	95.0
1271302	4x1.5	9.7	Black	120.0
1271303	4x1.5	9.7	Blue	120.0
1271304	6x1.5	11.5	Black	175.0
1271305	6x1.5	11.5	Blue	175.0
1271318	8x1.5	12.8	Black	225.0
1271319	8x1.5	12.8	Blue	225.0
1271306	10x1.5	14.5	Black	275.0
1271307	10x1.5	14.5	Blue	275.0
1271320	12x1.5	15.0	Black	325.0
1271321	12x1.5	15.0	Blue	325.0
1271308	16x1.5	16.7	Black	420.0
1271309	16x1.5	16.7	Blue	420.0
1271310	20x1.5	18.7	Black	520.0
1271311	20x1.5	18.7	Blue	520.0
1271312	24x1.5	20.6	Black	624.0
1271313	24x1.5	20.6	Blue	624.0
1271314	30x1.5	21.9	Black	760.0
1271315	30x1.5	21.9	Blue	760.0
1271316	40x1.5	24.7	Black	998.0
1271317	40x1.5	24.7	Blue	998.0

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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
1271340	3x2.5	9.9	Black	145.0
1271341	3x2.5	9.9	Blue	145.0
1271342	4x2.5	10.9	Black	182.0
1271343	4x2.5	10.9	Blue	182.0
1271344	6x2.5	12.8	Black	266.0
1271345	6x2.5	12.8	Blue	266.0
1271358	8x2.5	14.5	Black	350.0
1271359	8x2.5	14.5	Blue	350.0
1271346	10x2.5	16.4	Black	434.0
1271347	10x2.5	16.4	Blue	434.0
1271360	12x2.5	17.0	Black	510.0
1271361	12x2.5	17.0	Blue	510.0
1271348	16x2.5	18.9	Black	663.0
1271349	16x2.5	18.9	Blue	663.0
1271350	20x2.5	21.2	Black	820.0
1271351	20x2.5	21.2	Blue	820.0
1271352	24x2.5	23.3	Black	985.0
1271353	24x2.5	23.3	Blue	985.0
1271354	30x2.5	24.9	Black	1212.0
1271355	30x2.5	24.9	Blue	1212.0
1271356	40x2.5	28.1	Black	1595.0
1271357	40x2.5	28.1	Blue	1595.0

Elaborated by: BEKO / PM Approved by: BEKR / PM	Document: SDB1270800EN Version: 09	Page 10 of 10
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