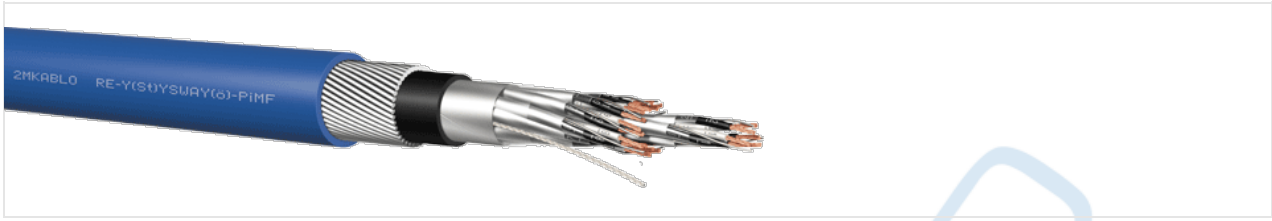


RE-Y(St)YSWAY(ö)-PiMF/TiMF



Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications. Armoured types provide mechanical strength and protect the cable core against outer mechanical effects. Additional oil and hydrocarbon resistance are achieved by its special design.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2)
Insulation	PVC (EN 50290-2-21)
Core Colors	Pair: Black / White, Numbered Triples: Black / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered
Separator	PET Foil
Individual Screen	Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire)
Lay-up	Shielded pairs / triples / quads are stranded in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Inner Sheath	PVC (EN 50290-2-22)
Armour	Round Galvanized Steel Wire (Min. Diameter 0.90 mm ±0.02 mm)
Outer Sheath	UV Resistant, Flame Retardant, Oil and Aliphatic Hydrocarbon Resistant, NBR/PVC, RAL 9005 - Black, RAL 5015 - Blue (other colors upon request)
Reference Standards	BS/EN 50288-7

Technical Properties

Operating Voltage	500 V*
Test Voltage	Core - Core: 2000 V; Core - Screen: 1000 V
Conductor Resistance	0.50 mm ² - ≤36 Ω/km; 0.75 mm ² - ≤24.5 Ω/km; 1.00 mm ² - ≤18.1 Ω/km; 1.30 mm ² - ≤14.2 Ω/km; 1.50 mm ² - ≤12.1 Ω/km; 2.50 mm ² - ≤7.41 Ω/km
Capacitance Unbalance (800 Hz)	≤500 pF/500m
Capacitance (@800Hz)	≤220 nF/km (Capacitance values may increase by 20% up to 4 pairs)
L/R Ratio	0.50 mm ² ..1.00 mm ² - ≤25 μH/Ω; 1.30 mm ² ..1.50 mm ² - ≤40 μH/Ω; 2.50 mm ² - ≤60 μH/Ω
Temperature Range	Fixed: -40 °C+70 °C, Flexible: -5 °C+50 °C
Flame Retardancy	IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C)
Oil Resistance	IEC/EN 60811-404 ASTM No 2 oil 90 °C 168 hours (7x24)
Aliphatic Hydrocarbon Resistant	NF M 87-202
Min. Bending Radius (Fixed)	12 x Cable Diameter
Insulation Resistance	>10 M.Ωxkm

Cross Section

Configuration / Cross-Section (mm/mm ²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.5	6.6	14	212
2x2x0.5	10.2	29	360
3x2x0.5	10.7	42	409
4x2x0.5	11.8	54	474
5x2x0.5	12.8	66	527
6x2x0.5	13.9	78	596
7x2x0.5	13.9	91	618
8x2x0.5	15.6	103	825
10x2x0.5	17.7	127	980
12x2x0.5	18.3	152	1060
14x2x0.5	19.2	177	1146
16x2x0.5	20.4	201	1252
18x2x0.5	21.5	226	1484
20x2x0.5	22.8	250	1611
24x2x0.5	25.3	299	1903
30x2x0.5	26.8	373	2390
1x2x0.75	7.1	19	230
2x2x0.75	11.1	39	411
3x2x0.75	11.8	57	472
4x2x0.75	12.8	74	533
5x2x0.75	14.1	91	608
6x2x0.75	15.4	108	817
7x2x0.75	15.4	126	845
8x2x0.75	17.3	143	972
10x2x0.75	19.6	177	1142
12x2x0.75	20.3	212	1242
14x2x0.75	21.4	246	1487
16x2x0.75	22.7	281	1626
18x2x0.75	23.9	315	1745
20x2x0.75	25.3	350	1946
24x2x0.75	28.2	419	2513
30x2x0.75	29.9	523	2791
1x2x1	7.4	24	245
2x2x1	11.7	49	443
3x2x1	12.4	72	510
4x2x1	13.6	94	590
5x2x1	14.8	117	671
6x2x1	16.3	139	896
7x2x1	16.3	161	930
8x2x1	18.3	184	1060
10x2x1	20.7	228	1262
12x2x1	21.5	273	1502
14x2x1	22.7	318	1653
16x2x1	23.9	363	1784
18x2x1	25.3	407	1997

20x2x1	26.8	452	2393
24x2x1	29.9	541	2762
30x2x1	31.7	676	3107
1x2x1.3	7.8	30	270
2x2x1.3	12.4	61	489
3x2x1.3	13.1	89	556
4x2x1.3	14.4	118	652
5x2x1.3	15.8	146	874
6x2x1.3	17.3	174	991
7x2x1.3	17.3	202	1033
8x2x1.3	19.5	231	1173
10x2x1.3	22.2	287	1546
12x2x1.3	23.1	344	1670
14x2x1.3	24.2	400	1830
16x2x1.3	25.7	456	2042
18x2x1.3	27.3	513	2487
20x2x1.3	28.9	569	2671
24x2x1.3	32.1	682	3108
30x2x1.3	34.2	852	3886
1x2x1.5	8.1	33	284
2x2x1.5	12.8	68	506
3x2x1.5	13.6	99	587
4x2x1.5	14.9	131	679
5x2x1.5	16.4	162	914
6x2x1.5	18.0	193	1036
7x2x1.5	18.0	225	1082
8x2x1.5	20.2	256	1245
10x2x1.5	23.1	319	1624
12x2x1.5	23.8	382	1769
14x2x1.5	25.1	445	1982
16x2x1.5	26.6	508	2166
18x2x1.5	28.2	571	2606
20x2x1.5	29.8	634	2830
24x2x1.5	33.4	760	3663
30x2x1.5	35.4	948	4129
1x2x2.5	9.3	51	347
2x2x2.5	15.1	103	639
3x2x2.5	16.0	152	874
4x2x2.5	17.6	201	1021
5x2x2.5	19.4	250	1181
6x2x2.5	21.4	299	1477
7x2x2.5	21.4	348	1546
8x2x2.5	24.1	397	1779
10x2x2.5	27.6	495	2431
12x2x2.5	28.6	593	2651
14x2x2.5	30.1	691	2892

16x2x2.5	31.9	789	3178
18x2x2.5	33.9	887	3868
20x2x2.5	35.9	985	4169
24x2x2.5	40.2	1181	4860
30x2x2.5	42.8	1475	5994

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