

RE-Y(St)YSWAY-fl-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.

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 PVC (EN 50290-2-22), 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 70 °C 4 hours
Min. Bending Radius (Fixed)	12 x Cable Diameter
Insulation Resistance	>10 M.Ωxkm

Cross Section

Configuration / Cross-Section	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
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(mm/mm ³)			
1x2x0.5	6.6	14	219
2x2x0.5	10.2	29	372
3x2x0.5	10.7	42	422
4x2x0.5	11.8	54	488
5x2x0.5	12.8	66	543
6x2x0.5	13.9	78	614
7x2x0.5	13.9	91	636
8x2x0.5	15.6	103	846
10x2x0.5	17.7	127	1005
12x2x0.5	18.3	152	1087
14x2x0.5	19.2	177	1174
16x2x0.5	20.4	201	1283
18x2x0.5	21.5	226	1517
20x2x0.5	22.8	250	1648
24x2x0.5	25.3	299	1945
30x2x0.5	26.8	373	2436
1x2x0.75	7.1	19	238
2x2x0.75	11.1	39	424
3x2x0.75	11.8	57	487
4x2x0.75	12.8	74	550
5x2x0.75	14.1	91	626
6x2x0.75	15.4	108	837
7x2x0.75	15.4	126	866
8x2x0.75	17.3	143	996
10x2x0.75	19.6	177	1171
12x2x0.75	20.3	212	1273
14x2x0.75	21.4	246	1520
16x2x0.75	22.7	281	1662
18x2x0.75	23.9	315	1783
20x2x0.75	25.3	350	1988
24x2x0.75	28.2	419	2562
30x2x0.75	29.9	523	2845
1x2x1	7.4	24	253
2x2x1	11.7	49	458
3x2x1	12.4	72	526
4x2x1	13.6	94	608
5x2x1	14.8	117	691
6x2x1	16.3	139	918
7x2x1	16.3	161	953
8x2x1	18.3	184	1087
10x2x1	20.7	228	1293
12x2x1	21.5	273	1535
14x2x1	22.7	318	1689
16x2x1	23.9	363	1822
18x2x1	25.3	407	2039
20x2x1	26.8	452	2439

24x2x1	29.9	541	2816
30x2x1	31.7	676	3165
1x2x1.3	7.8	30	279
2x2x1.3	12.4	61	505
3x2x1.3	13.1	89	572
4x2x1.3	14.4	118	671
5x2x1.3	15.8	146	895
6x2x1.3	17.3	174	1016
7x2x1.3	17.3	202	1057
8x2x1.3	19.5	231	1201
10x2x1.3	22.2	287	1580
12x2x1.3	23.1	344	1707
14x2x1.3	24.2	400	1869
16x2x1.3	25.7	456	2084
18x2x1.3	27.3	513	2535
20x2x1.3	28.9	569	2723
24x2x1.3	32.1	682	3167
30x2x1.3	34.2	852	3952
1x2x1.5	8.1	33	293
2x2x1.5	12.8	68	522
3x2x1.5	13.6	99	604
4x2x1.5	14.9	131	698
5x2x1.5	16.4	162	937
6x2x1.5	18.0	193	1062
7x2x1.5	18.0	225	1107
8x2x1.5	20.2	256	1275
10x2x1.5	23.1	319	1661
12x2x1.5	23.8	382	1807
14x2x1.5	25.1	445	2023
16x2x1.5	26.6	508	2211
18x2x1.5	28.2	571	2655
20x2x1.5	29.8	634	2883
24x2x1.5	33.4	760	3728
30x2x1.5	35.4	948	4199
1x2x2.5	9.3	51	358
2x2x2.5	15.1	103	659
3x2x2.5	16.0	152	896
4x2x2.5	17.6	201	1045
5x2x2.5	19.4	250	1209
6x2x2.5	21.4	299	1510
7x2x2.5	21.4	348	1579
8x2x2.5	24.1	397	1817
10x2x2.5	27.6	495	2478
12x2x2.5	28.6	593	2701
14x2x2.5	30.1	691	2945
16x2x2.5	31.9	789	3236

18x2x2.5	33.9	887	3933
20x2x2.5	35.9	985	4239
24x2x2.5	40.2	1181	4944
30x2x2.5	42.8	1475	6088

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