RE-Y(St)Y(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. 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: Balck / 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)
Outer Sheath	UV Resisdant, 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 mm² - ≤36 Ω/km; 0.75 mm² - ≤24.5 Ω/km; 1.00 mm² - ≤18.1 Ω/km; 1.30 mm² - ≤14.2 Ω/km; 1.50 mm² - ≤12.1 Ω/km; 2.50 mm² - ≤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 mm²..1.00 mm² - ≤25 µH/Ω; 1.30 mm²..1.50 mm² - ≤40 µH/Ω; 2.50 mm² - ≤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)	8 x Cable Diameter
Insulation Resistance	>10 M.Ωxkm

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.5	5.7	14	49

2x2x0.5	9.4	29	104
3x2x0.5	9.9	42	130
4x2x0.5	11.0	54	161
5x2x0.5	12.1	66	194
6x2x0.5	13.1	78	224
7x2x0.5	13.1	91	246
8x2x0.5	14.9	103	288
10x2x0.5	17.0	127	353
12x2x0.5	17.6	152	407
14x2x0.5	18.5	177	458
16x2x0.5	19.7	201	516
18x2x0.5	20.8	226	576
20x2x0.5	22.1	250	638
24x2x0.5	24.7	299	763
30x2x0.5	26.2	373	917
1x2x0.75	6.2	19	59
2x2x0.75	10.3	39	124
3x2x0.75	11.0	57	160
4x2x0.75	12.0	74	196
5x2x0.75	13.3	91	236
6x2x0.75	14.6	108	278
7x2x0.75	14.6	126	307
8x2x0.75	16.6	143	359
10x2x0.75	18.9	177	440
12x2x0.75	19.6	212	508
14x2x0.75	20.7	246	581
16x2x0.75	22.0	281	655
18x2x0.75	23.3	315	731
20x2x0.75	24.7	350	808
24x2x0.75	27.6	419	966
30x2x0.75	29.3	523	1164
1x2x1	6.5	24	66
2x2x1	10.8	49	139
3x2x1	11.6	72	182
4x2x1	12.8	94	228
5x2x1	14.1	117	276
6x2x1	15.5	139	324
7x2x1	15.5	161	359
8x2x1	17.5	184	414
10x2x1	20.0	228	514
12x2x1	20.8	273	596
14x2x1	21.9	318	676
16x2x1	23.2	363	762
18x2x1	24.6	407	852
20x2x1	26.1	452	942
24x2x1	29.3	541	1136

30x2x1	31.1	676	1372
1x2x1.3	7.0	30	77
2x2x1.3	11.6	61	161
3x2x1.3	12.4	89	211
4x2x1.3	13.7	118	265
5x2x1.3	15.1	146	321
6x2x1.3	16.6	174	378
7x2x1.3	16.6	202	420
8x2x1.3	18.8	231	484
10x2x1.3	21.5	287	601
12x2x1.3	22.4	344	697
14x2x1.3	23.6	400	798
16x2x1.3	25.1	456	901
18x2x1.3	26.6	513	1006
20x2x1.3	28.2	569	1112
24x2x1.3	31.5	682	1331
30x2x1.3	33.6	852	1620
1x2x1.5	7.2	33	82
2x2x1.5	12.0	68	170
3x2x1.5	12.8	99	224
4x2x1.5	14.2	131	283
5x2x1.5	15.6	162	343
6x2x1.5	17.2	193	405
7x2x1.5	17.2	225	450
8x2x1.5	19.5	256	524
10x2x1.5	22.4	319	651
12x2x1.5	23.1	382	748
14x2x1.5	24.4	445	857
16x2x1.5	25.9	508	968
18x2x1.5	27.5	571	1081
20x2x1.5	29.2	634	1205
24x2x1.5	32.7	760	1439
30x2x1.5	34.8	948	1754
1x2x2.5	8.5	51	114
2x2x2.5	14.3	103	240
3x2x2.5	15.3	152	320
4x2x2.5	16.9	201	406
5x2x2.5	18.7	250	494
6x2x2.5	20.7	299	590
7x2x2.5	20.7	348	658
8x2x2.5	23.5	397	764
10x2x2.5	26.9	495	948
12x2x2.5	28.0	593	1104
14x2x2.5	29.5	691	1265
16x2x2.5	31.3	789	1431
18x2x2.5	33.3	887	1608

20x2x2.5	35.3	985	1778
24x2x2.5	39.6	1181	2135
30x2x2.5	42.2	1475	2603

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