RE-Y(St)Y-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.

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 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 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)	≤250 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 70 °C 4 hours
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	54
2x2x0.5	9.4	29	114

3x2x0.5	9.9	42	140
4x2x0.5	11.0	54	174
5x2x0.5	12.1	66	208
6x2x0.5	13.1	78	240
7x2x0.5	13.1	91	262
8x2x0.5	14.9	103	308
10x2x0.5	17.0	127	376
12x2x0.5	17.6	152	432
14x2x0.5	18.5	177	485
16x2x0.5	19.7	201	546
18x2x0.5	20.8	226	609
20x2x0.5	22.1	250	674
24x2x0.5	24.7	299	806
30x2x0.5	26.2	373	964
1x2x0.75	6.2	19	64
2x2x0.75	10.3	39	135
3x2x0.75	11.0	57	172
4x2x0.75	12.0	74	210
5x2x0.75	13.3	91	252
6x2x0.75	14.6	108	297
7x2x0.75	14.6	126	325
8x2x0.75	16.6	143	382
10x2x0.75	18.9	177	468
12x2x0.75	19.6	212	538
14x2x0.75	20.7	246	613
16x2x0.75	22.0	281	691
18x2x0.75	23.3	315	769
20x2x0.75	24.7	350	851
24x2x0.75	27.6	419	1017
30x2x0.75	29.3	523	1220
1x2x1	6.5	24	72
2x2x1	10.8	49	150
3x2x1	11.6	72	195
4x2x1	12.8	94	243
5x2x1	14.1	117	293
6x2x1	15.5	139	345
7x2x1	15.5	161	380
8x2x1	17.5	184	439
10x2x1	20.0	228	544
12x2x1	20.8	273	628
14x2x1	21.9	318	710
16x2x1	23.2	363	800
18x2x1	24.6	407	893
20x2x1	26.1	452	987
24x2x1	29.3	541	1191
30x2x1	31.1	676	1432

1x2x1.3	7.0	30	84
2x2x1.3	11.6	61	174
3x2x1.3	12.4	89	225
4x2x1.3	13.7	118	283
5x2x1.3	15.1	146	341
6x2x1.3	16.6	174	401
7x2x1.3	16.6	202	443
8x2x1.3	18.8	231	511
10x2x1.3	21.5	287	635
12x2x1.3	22.4	344	733
14x2x1.3	23.6	400	837
16x2x1.3	25.1	456	944
18x2x1.3	26.6	513	1054
20x2x1.3	28.2	569	1164
24x2x1.3	31.5	682	1392
30x2x1.3	33.6	852	1689
1x2x1.5	7.2	33	89
2x2x1.5	12.0	68	184
3x2x1.5	12.8	99	240
4x2x1.5	14.2	131	301
5x2x1.5	15.6	162	363
6x2x1.5	17.2	193	428
7x2x1.5	17.2	225	473
8x2x1.5	19.5	256	553
10x2x1.5	22.4	319	687
12x2x1.5	23.1	382	786
14x2x1.5	24.4	445	897
16x2x1.5	25.9	508	1013
18x2x1.5	27.5	571	1130
20x2x1.5	29.2	634	1260
24x2x1.5	32.7	760	1505
30x2x1.5	34.8	948	1828
1x2x2.5	8.5	51	123
2x2x2.5	14.3	103	258
3x2x2.5	15.3	152	340
4x2x2.5	16.9	201	429
5x2x2.5	18.7	250	521
6x2x2.5	20.7	299	621
7x2x2.5	20.7	348	690
8x2x2.5	23.5	397	803
10x2x2.5	26.9	495	996
12x2x2.5	28.0	593	1155
14x2x2.5	29.5	691	1321
16x2x2.5	31.3	789	1492
18x2x2.5	33.3	887	1676
20x2x2.5	35.3	985	1853

24x2x2.5	39.6	1181	2225
30x2x2.5	42.2	1475	2704

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