RE-Y(St)Y-fl



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	Multicore: White Numbered Pair: Black / White, Numbered Triples: Balck / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered
Lay-up	Cores / 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	8.4	24	95
3x2x0.5	8.9	33	116

4x2x0.5	9.8	43	143
5x2x0.5	10.7	53	167
6x2x0.5	11.7	62	196
7x2x0.5	11.7	72	213
8x2x0.5	13.2	81	247
10x2x0.5	15.0	100	301
12x2x0.5	15.6	120	345
14x2x0.5	16.4	139	387
16x2x0.5	17.4	158	437
18x2x0.5	18.4	177	485
20x2x0.5	19.6	196	538
24x2x0.5	21.7	234	636
30x2x0.5	23.1	292	762
1x2x0.75	6.2	19	64
2x2x0.75	9.2	34	113
3x2x0.75	9.9	48	144
4x2x0.75	10.8	63	174
5x2x0.75	11.9	78	210
6x2x0.75	13.0	92	246
7x2x0.75	13.0	107	269
8x2x0.75	14.7	121	312
10x2x0.75	16.8	150	381
12x2x0.75	17.4	179	440
14x2x0.75	18.3	208	494
16x2x0.75	19.4	238	558
18x2x0.75	20.6	267	622
20x2x0.75	21.8	296	688
24x2x0.75	24.4	354	825
30x2x0.75	26.0	441	990
1x2x1	6.5	24	72
2x2x1	9.7	44	128
3x2x1	10.4	64	166
4x2x1	11.5	83	207
5x2x1	12.5	103	245
6x2x1	13.8	123	289
7x2x1	13.8	142	318
8x2x1	15.6	162	367
10x2x1	17.8	201	457
12x2x1	18.4	241	521
14x2x1	19.5	280	596
16x2x1	20.7	319	672
18x2x1	21.9	359	750
20x2x1	23.3	398	831
24x2x1	25.9	477	986
30x2x1	27.6	594	1198
1x2x1.3	7.0	30	84

2x2x1.3	10.4	56	151
3x2x1.3	11.1	81	192
4x2x1.3	12.3	107	241
5x2x1.3	13.5	132	291
6x2x1.3	14.8	158	342
7x2x1.3	14.8	183	378
8x2x1.3	16.8	209	437
10x2x1.3	19.2	260	544
12x2x1.3	19.9	311	622
14x2x1.3	21.0	362	712
16x2x1.3	22.3	413	804
18x2x1.3	23.6	464	898
20x2x1.3	25.1	515	994
24x2x1.3	28.0	617	1189
30x2x1.3	29.8	771	1436
1x2x1.5	7.2	33	89
2x2x1.5	10.8	62	160
3x2x1.5	11.6	91	210
4x2x1.5	12.8	120	263
5x2x1.5	14.0	148	313
6x2x1.5	15.3	177	368
7x2x1.5	15.3	206	408
8x2x1.5	17.5	235	478
10x2x1.5	20.0	292	594
12x2x1.5	20.7	450	681
14x2x1.5	21.9	407	779
16x2x1.5	23.2	465	880
18x2x1.5	24.6	522	982
20x2x1.5	26.1	580	1087
24x2x1.5	29.1	695	1299
30x2x1.5	31.0	867	1570
1x2x2.5	8.5	51	123
2x2x2.5	12.9	97	230
3x2x2.5	13.8	144	300
4x2x2.5	15.3	190	379
5x2x2.5	16.9	236	467
6x2x2.5	18.6	283	551
7x2x2.5	18.6	329	614
8x2x2.5	21.1	375	707
10x2x2.5	24.2	468	888
12x2x2.5	25.1	560	1023
14x2x2.5	26.5	653	1172
16x2x2.5	28.1	746	1325
18x2x2.5	29.9	838	1490
20x2x2.5	31.7	931	1649
24x2x2.5	35.5	1116	1983

30x2x2.5	37.8	1394	2402

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