



PVC Insulation, Individual & Collective Screen, Galvanized Steel Wire Armoring, PVC Sheath Instrumentation Cable

Application

These cables used for connecting instruments and control systems for analogue or digital signal transmission for indoor and outdoor applications. These cables shall not be connected directly to mains electricity supply or other low impedance sources, since they are not designed to be used for power supply.

Construction

CONDUCTOR :Electrolytic, stranded, annealed plain copper wires to IEC 60228 Class 2 (Class 1 or Class 5 and / or tinned on request)

INSULATION :PVC compound to EN50290-2-21 Black / White twisted pairs or twisted triad with numbered cores

BINDER TAPE :Polyester foil on overall cable core formed by stranded pairs or twisted triad

COLLECTIVE SCREEN :Aluminum/polyester foil with a tinned copper drain wire in direct contact with the metallic side of the foil

INNER SHEATH :PVC compound to EN50290-2-22

ARMOUR :Round galvanised steel wires EN 10257-1

OUTER SHEATH :Flame retardant PVC compound to EN50290-2-22 Blue for intrinsically safe cable Black for UV resistant and/or non-intrinsically safe cable Other colours on request

Electrical Properties

RATED VOLTAGE :500 V a.c.

AC TEST VOLTAGE :2000 V x 1 min. (core:core / core: screen)

WORKING TEMPERATURE : -30°C / + 70°C (during operation) – 5 °C / + 50°C (during installation)

MIN BENDING RADIUS (FIXED) :7,5 x D

CONSTRUCTION :EN 50288-7

MATERIAL TYPES & TESTS :EN 50290-2 series

ELECTRICAL & MECHANICAL TESTS :EN 50289 series

FLAME RETARDANT :IEC 60332 / 1-2, IEC 60332 / 3-24 Cat C

Parameter

RE-Y(St)YSWAY-fi PIMF Cable

Cross Sections (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
2x2x0,5	14.7	367
4x2x0,5	16.3	458
5x2x0,5	17.5	522

Cross Sections (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
6x2x0,5	18.7	575
8x2x0,5	21.3	798
10x2x0,5	23.3	920
12x2x0,5	23.9	982
16x2x0,5	26.2	1163
20x2x0,5	28.6	1336
24x2x0,5	32	1725
2x2x0,75	15.8	415
4x2x0,75	17.8	536
5x2x0,75	19	596
6x2x0,75	21	782
8x2x0,75	23.2	918
10x2x0,75	25.7	1080
12x2x0,75	26.4	1158
16x2x0,75	29	1382
20x2x0,75	32.6	1795
24x2x0,75	35.9	2084
2x2x1	16.2	434
4x2x1	18.3	565
5x2x1	19.5	635
6x2x1	21.8	837
8x2x1	23.8	980
10x2x1	26.5	1145
12x2x1	27.2	1243
16x2x1	29.8	1476
20x2x1	33.6	1930
24x2x1	37.2	2260
2x2x1,3	16.9	468
4x2x1,3	19.1	620
5x2x1,3	21.4	826
6x2x1,3	22.9	927
8x2x1,3	25.3	1100
10x2x1,3	28	1282
12x2x1,3	28.9	1396
16x2x1,3	32.3	1853
20x2x1,3	35.9	2208
24x2x1,3	39.4	2543
2x2x1,5	17.5	500
4x2x1,5	19.6	648
5x2x1,5	21.9	870
6x2x1,5	23.4	967
8x2x1,5	25.9	1150
10x2x1,5	28.9	1353

Cross Sections (mm2)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
12x2x1,5	29.7	1475
16x2x1,5	33.3	1957
20x2x1,5	37.1	2350
24x2x1,5	40.7	3170
2x2x2,5	19.7	610
4x2x2,5	23.2	953
5x2x2,5	25.1	1095
6x2x2,5	26.9	1228
8x2x2,5	29.9	1486
10x2x2,5	34.6	2000
12x2x2,5	35.6	2185
16x2x2,5	39.1	2608
20x2x2,5	44.2	3404
24x2x2,5	48.9	3964

RE-Y(St)YSWAY-fi TIMF Cable

Cross Sections (mm2)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
2x3x0,5	15.6	410
4x3x0,5	17.6	530
5x3x0,5	18.8	600
6x3x0,5	20.7	780
8x3x0,5	22.8	824
10x3x0,5	25.4	1080
12x3x0,5	26	1160
16x3x0,5	28.3	1374
20x3x0,5	31.2	1610
24x3x0,5	35.3	2092
2x3x0,75	16.7	465
4x3x0,75	19	613
5x3x0,75	21	810
6x3x0,75	22.6	910
8x3x0,75	24.8	1070
10x3x0,75	27.6	1260
12x3x0,75	28.4	1374
16x3x0,75	31.2	1650
20x3x0,75	35.5	2175
24x3x0,75	38.9	2506
2x3x1	17.1	488
4x3x1	19.4	655
5x3x1	21.7	870
6x3x1	23.2	968
8x3x1	25.6	1155
10x3x1	28.4	1360
12x3x1	29.4	1500

Cross Sections (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
16x3x1	33	1990
20x3x1	36.7	2375
24x3x1	40.2	2736
2x3x1,3	18.1	540
4x3x1,3	21	842
5x3x1,3	22.7	960
6x3x1,3	24.3	1080
8x3x1,3	26.9	1295
10x3x1,3	30.1	1538
12x3x1,3	31	1686
16x3x1,3	35.1	2294
20x3x1,3	38.7	2698
24x3x1,3	42.5	3110
2x3x1,5	18.6	568
4x3x1,5	21.9	904
5x3x1,5	23.5	1020
6x3x1,5	25.4	1160
8x3x1,5	27.9	1383
10x3x1,5	31.2	1640
12x3x1,5	33	2004
16x3x1,5	36.7	2456
20x3x1,5	40.4	2890
24x3x1,5	45.2	3645
2x3x2,5	22	842
4x3x2,5	25.1	1150
5x3x2,5	27	1323
6x3x2,5	29.2	1502
8x3x2,5	33.2	2015
10x3x2,5	37.6	2448
12x3x2,5	38.7	2695
16x3x2,5	43.4	3560
20x3x2,5	48.5	4268
24x3x2,5	53.3	4948