



PVC Insulation, Individual & Collective Screen, 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 each twisted pair or Polyester foil on each twisted triad

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

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

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

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)Y-fl PIMF

Cross Sections (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
2x2x0,5	10.1	102
4x2x0,5	11.7	156
5x2x0,5	13	190
6x2x0,5	14.1	220
8x2x0,5	16	284
10x2x0,5	18.2	351
12x2x0,5	18.8	400
16x2x0,5	21.1	516
20x2x0,5	23.7	636
24x2x0,5	26.4	759
2x2x0,75	11.2	122
4x2x0,75	13.2	197
5x2x0,75	14.4	234

Cross Sections (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
6x2x0,75	16	279
8x2x0,75	18.1	360
10x2x0,75	20.6	445
12x2x0,75	21.3	509
16x2x0,75	24	567
20x2x0,75	26.8	809
24x2x0,75	30	966
2x2x1	11.6	133
4x2x1	13.7	218
5x2x1	15	260
6x2x1	16.5	310
8x2x1	18.7	400
10x2x1	21.4	532
12x2x1	22.1	569
16x2x1	24.7	735
20x2x1	27.8	907
24x2x1	31	1084
2x2x1,3	12.5	158
4x2x1,3	14.5	254
5x2x1,3	16.1	311
6x2x1,3	17.6	363
8x2x1,3	20	470
10x2x1,3	23	584
12x2x1,3	23.8	683
16x2x1,3	26.7	884
20x2x1,3	30	1090
24x2x1,3	33.4	1302
2x2x1,5	13	168
4x2x1,5	15.2	279
5x2x1,5	16.6	334
6x2x1,5	18.3	398
8x2x1,5	20.8	515
10x2x1,5	23.8	638
12x2x1,5	24.6	735
16x2x1,5	27.5	951
20x2x1,5	30.9	1175
24x2x1,5	34.7	1420
2x2x2,5	15.3	234
4x2x2,5	18.1	395
5x2x2,5	19.8	475
6x2x2,5	21.8	566
8x2x2,5	24.8	734
10x2x2,5	28.4	911

Cross Sections (mm2)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
12x2x2,5	29.6	1069
16x2x2,5	33.1	1385
20x2x2,5	37.4	1728
24x2x2,5	41.7	2062

RE-Y(St)Y-fl TIMF

Cross Sections (mm2)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
2x3x0,5	11	123
4x3x0,5	13	201
5x3x0,5	14.2	240
6x3x0,5	15.6	285
8x3x0,5	17.5	360
10x3x0,5	20.1	447
12x3x0,5	20.9	523
16x3x0,5	23.4	675
20x3x0,5	26.3	832
24x3x0,5	29.3	994
2x3x0,75	12.1	150
4x3x0,75	14.4	251
5x3x0,75	15.9	307
6x3x0,75	17.3	358
8x3x0,75	19.7	464
10x3x0,75	22.5	575
12x3x0,75	23.5	674
16x3x0,75	26.3	871
20x3x0,75	29.5	1075
24x3x0,75	32.9	1284
2x3x1	12.7	172
4x3x1	14.8	280
5x3x1	16.4	344
6x3x1	18.1	410
8x3x1	20.3	521
10x3x1	23.5	659
12x3x1	24.3	761
16x3x1	27.2	986
20x3x1	30.5	1217
24x3x1	34.2	1471
2x3x1,3	13.5	200
4x3x1,3	15.9	338
5x3x1,3	17.4	407
6x3x1,3	19.2	486
8x3x1,3	21.8	631
10x3x1,3	25	784
12x3x1,3	26	921

Cross Sections (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)
16x3x1,3	29.1	1195
20x3x1,3	32.7	1477
24x3x1,3	36.5	1764
2x3x1,5	14	214
4x3x1,5	16.6	366
5x3x1,5	18.4	450
6x3x1,5	20.1	526
8x3x1,5	22.8	684
10x3x1,5	26.3	962
12x3x1,5	27.2	1000
16x3x1,5	30.5	1300
20x3x1,5	34.4	1621
24x3x1,5	38.4	1936
2x3x2,5	16.7	304
4x3x2,5	19.8	528
5x3x2,5	21.9	650
6x3x2,5	24.1	775
8x3x2,5	27.4	1010
10x3x2,5	31.6	1267
12x3x2,5	32.7	1473
16x3x2,5	36.8	1935
20x3x2,5	41.3	2391
24x3x2,5	46.3	2877