



Applications

These type of cables which PVC sheathed and braiding screened is used in are used in office equipment, electronic control systems, air condition systems, power stations, engineering projects for control, vision and measurement purposes. They are very flexible due to the use of thin multicore copper as conductor. They can be used in wet or dry indoor applications but for outdoor use, UV protected PVC must be used where sunlight is abundant. Screening, protects the cable from the outer electrical effects.

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228 / VDE0295 / HD383/ BS 6360 Class 5)
Insulation	PVC (EN 50290-2/HD 21.1.S4/VDE 0281-T12), Color Code (VDE0293): Black (White numbered) After 3 cores there is number/green marked drain wire.
Lay-up	All cores as layers
Inner Sheath	PVC Color : RAL 7001 Grey
Screen	Tinned Copper Wire Braiding (70% Coverage) (EN 50288)
Outer Sheath	PVC (EN 50290-2/HD 21.1.S4/VDE 0281 TM1) Outer Sheath Color: RAL 7001 Grey

Reference Standards	VDE 0245
Flame Test	IEC 60332-1, VDE 0482-265-2-1

Technical and Electrical Properties (20°C)

Operating Voltage	0.50 mm ² ...1.50 mm ²	300 V / 500 V
	2.50 mm ²	450 V / 750 V
Test Voltage	2500 V	
Insulation Resistance	Min. 200 M. Ohm x Km	
Current Carrying Capacity	See Technical Data Table 4	
Temperature Range	Fixed	-30 °C... +70 °C
	Flexible	-5 °C... +70 °C
Minimum Bending Radius	Fixed	10 x Cable Diameter
	Flexible	20 x Cable Diameter

Cross Section	Conductor Resistance	
	(Max. Ω/Km)	
0.50 mm ²	39.0	
0.75 mm ²	26.0	
1.00 mm ²	19.5	
1.50 mm ²	13.3	
2.50 mm ²	7.98	

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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0.50 mm²

34X00502	2x0.50	6.8	20.3	67
34X00503	3x0.50	7.0	24.9	77
34X00504	4x0.50	7.9	31.8	92
34X00505	5x0.50	8.4	37.4	104
34X00506	6x0.50	8.9	42.6	116
34X00507	7x0.50	8.9	46.9	128
34X00508	8x0.50	9.8	53.6	143
34X00509	9x0.50	10.4	58.7	159
34X00510	10x0.50	11.0	65.2	176
34X00512	12x0.50	11.3	74.7	207
34X00515	15x0.50	12.8	90.1	245
34X00516	16x0.50	12.8	94.3	257
34X00519	19x0.50	13.3	106.4	295
34X00520	20x0.50	14.0	122.5	309
34X00521	21x0.50	14.0	126.8	320
34X00525	25x0.50	15.3	148.9	373
34X00527	27x0.50	15.8	159.0	392
34X00530	30x0.50	16.2	174.4	425

0.75 mm²

34X00802	2x0.75	7.2	26.8	76
34X00803	3x0.75	7.6	35.7	92
34X00804	4x0.75	8.2	44.2	110
34X00805	5x0.75	9.1	51.9	131
34X00806	6x0.75	9.8	61.4	149
34X00807	7x0.75	9.8	67.9	159
34X00808	8x0.75	10.4	76.7	184
34X00809	9x0.75	11.1	84.5	209
34X00810	10x0.75	12.0	93.3	234
34X00812	12x0.75	12.5	108.3	260
34X00815	15x0.75	13.8	139.9	311
34X00816	16x0.75	13.8	146.4	325
34X00819	19x0.75	14.6	169.2	382
34X00820	20x0.75	15.3	178.5	403
34X00821	21x0.75	15.3	185.5	415
34X00825	25x0.75	16.9	217.2	490
34X00827	27x0.75	17.4	237.2	522
34X00830	30x0.75	18.1	255.5	590

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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1.00 mm²

34X01002	2x1.00	7.9	34.0	92
34X01003	3x1.00	8.3	44.2	108
34X01004	4x1.00	9.1	54.5	130
34X01005	5x1.00	10.0	64.2	158
34X01006	6x1.00	11.0	79.5	188
34X01007	7x1.00	11.0	86.5	199
34X01008	8x1.00	12.0	96.9	233
34X01009	9x1.00	12.9	109.8	266
34X01010	10x1.00	14.2	127.7	321
34X01012	12x1.00	14.5	147.9	353
34X01015	15x1.00	15.8	178.9	420
34X01016	16x1.00	15.8	187.9	426
34X01019	19x1.00	16.9	216.7	496
34X01020	20x1.00	17.9	230.9	543
34X01021	21x1.00	17.9	239.9	549
34X01025	25x1.00	19.6	283.4	667

1.50 mm²

34X01502	2x1.50	8.6	44.4	113
34X01503	3x1.50	9.1	58.8	133
34X01504	4x1.50	10.0	75.0	164
34X01505	5x1.50	11.0	90.4	199
34X01506	6x1.50	12.1	112.0	240
34X01507	7x1.50	12.1	119.8	251
34X01508	8x1.50	13.1	140.6	291
34X01509	9x1.50	14.2	158.7	340
34X01510	10x1.50	15.2	177.5	386
34X01512	12x1.50	15.6	206.1	422
34X01515	15x1.50	17.4	251.3	521
34X01516	16x1.50	17.4	264.8	532
34X01519	19x1.50	18.6	301.5	615
34X01520	20x1.50	19.6	328.1	669

2.50 mm²

34X02502	2x2.50	10.0	65.7	157
34X02503	3x2.50	10.6	89.3	189
34X02504	4x2.50	11.6	113.7	231
34X02505	5x2.50	13.0	144.0	291
34X02506	6x2.50	14.1	185.8	346
34X02507	7x2.50	14.1	192.8	361
34X02508	8x2.50	15.9	219.5	441
34X02509	9x2.50	16.8	245.4	493
34X02510	10x2.50	18.0	272.0	558