

NY2Y Cable



Eland Product Group: B3C

APPLICATION

The NY2Y cable is mainly placed in earth, in ducts, on support brackets and in dry and wet conditions where it is not expected to be at risk of mechanical damages or exposed to the mechanical tensile strain. Suitable for urban networks, industrial plants, electric power plants and for the connection of control devices in industry, traffic etc.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating

Operating temperature: -35°C to +70°C
Maximum conductor temperature: +70°C

Short Circuit Temperature
160°C

Minimum Bending Radius

Single core: 15 x overall diameter
Multi core: 12 x overall diameter

CONSTRUCTION

Conductor

RE: Class 1 round solid copper
RM: Class 2 round stranded copper
SM: Class 2 sector shaped stranded copper

Insulation

PVC (Polyvinyl chloride)

Outer Sheath

HDPE (High-density polyethylene)

Core Identification

2 core: ● Black ● Brown
3 core: ● Black ● Brown ● Grey
4 core including earth: ● Black ● Brown ● Grey ● Green/Yellow
4 core: ● Black ● Brown ● Grey ● Blue
5 core: ● Black ● Brown ● Grey ● Blue ● Black

Outer Sheath Colour

● Black

STANDARDS

VDE 0276-603, HD 603 S, HD 308 S2

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B3C01050C2BK	1	50	RM	15.4	573
B3C01070C2BK	1	70	RM	17.2	792
B3C01095C2BK	1	95	RM	19.5	1023
B3C01120C2BK	1	120	RM	21.1	1225
B3C01150C2BK	1	150	RM	23	1438
B3C01185C2BK	1	185	RM	25.7	1967
B3C01240C2BK	1	240	RM	28.7	2945
B3C01300C2BK	1	300	RM	31.5	3150
B3C020060C1BK	1	400	RM	34.5	4035
B3C020060C1BK	2	6	RE	15.1	305
B3C02010C1BK	2	10	RE	16.7	453
B3C02010C2BK	2	10	RM	17.8	594
B3C02016C1BK	2	16	RE	19.9	654
B3C02025C2BK	2	25	RM	22.3	975
B3C02035C2BK	2	35	RM	26	1080
B3C030060C1BK	3	6	RE	15.9	354
B3C03010C1BK	3	10	RE	17.6	520
B3C03010C2BK	3	10	RM	18.6	568
B3C03016C2BK	3	16	RM	21	768
B3C0316/10C2BK	3	16+10	RM/RM	21.3	720
B3C03025C2BK	3	25	RM	25.1	1196
B3C0325/10C2BK	3	25+10	RM/RM	25.5	1035
B3C03025/16C2BK	3	25+16	RM/RM	25.5	1106
B3C03035C2BK	3	35	RM	27.5	1525
B3C03035/16C2BK	3	35+16	RM/RM	28.3	1385
B3C0335/25C2BK	3	35+25	RM/RM	28.3	1463
B3C03050C2BK	3	50	SM	-	-
B3C03050/25C2BK	3	50+25	SM/RM	30.1	1998
B3C0350/35C2BK	3	50+35	SM/SM	29.5	2040
B3C03070/35C2BK	3	70+35	SM/RM	33.6	2663
B3C0370/50C2BK	3	70+50	SM/RM	33.6	2850
B3C03095/50C2BK	3	95+50	SM/RM	38.7	3875
B3C03120/70C2BK	3	120+70	SM/RM	41.9	4792
B3C03150/70C2BK	3	150+70	SM/RM	46.2	5480
B3C03185/95C2BK	3	185+95	SM/RM	50.9	7005
B3C3240/120C2BK	3	240+120	SM/RM	56.1	9015
B3C040060C1BK	4	6	RE	16.9	436
B3C04010C1BK	4	10	RE	19.1	620
B3C04010C2BK	4	10	RM	19.5	698
B3C04016C2BK	4	16	RM	22.0	980
B3C04025C2BK	4	25	RM	27.8	1056
B3C04035C2BK	4	35	RM	30.5	1992
B3C04035C2BK	4	35	SM	26.4	1600
B3C04050C2BK	4	50	SM	29.9	2080
B3C04070C2BK	4	70	SM	33.2	2890
B3C04095C2BK	4	95	SM	38.6	4210
B3C04120C2BK	4	120	SM	41.8	5236

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B3C04150C2BK	4	150	SM	46.7	6315
B3C04185C2BK	4	185	SM	51.3	7836
B3C04240C2BK	4	240	SM	58.3	10450
B3C050060C1BK	5	6	RE	18.1	518
B3C05010C1BK	5	10	RE	20.6	780
B3C05010C2BK	5	10	RM	22.4	813
B3C05016C2BK	5	16	RM	25.7	1198
B3C05025C2BK	5	25	RM	30.3	1850
B3C05035C2BK	5	35	SM	34	2430
B3C05050C2BK	5	50	RM	38.6	3385
B3C05070C2BK	5	70	RM	44.1	4653
B3C05095C2BK	5	95	RM	50.6	6312

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
			IN AIR	IN GROUND	
1	50	RM	214	296	0.387
1	70	RM	17.2	792	0.268
1	95	RM	19.5	1023	0.193
1	120	RM	389	501	0.153
1	150	RM	446	563	0.124
1	185	RM	516	639	0.099
1	240	RM	618	746	0.075
1	300	RM	717	848	0.060
1	400	RM	843	975	0.044
2	6	RE	51	73	3.08
2	10	RE	63	82	1.83
2	10	RM	63	82	1.83
2	16	RE	85	127	1.15
2	25	RM	122	163	0.727
2	35	RM	148	178	0.524
3	6	RE	43	58	3.08
3	10	RE	59	78	1.83
3	10	RM	59	78	1.83
3	16	RM	78	101	1.15
3	16+10	RM/RM	77	88	1.15/1.83
3	25	RM	105	132	0.727
3	25+10	RM/RM	98	120	0.727/1.83
3	25+16	RM/RM	105	132	0.727/1.15
3	35	RM	129	159	0.524
3	35+16	RM/RM	129	159	0.524/1.15
3	35+25	RM/RM	134	162	0.524/0.727
3	50	SM	-	-	0.387
3	50+25	SM/RM	157	188	0.387/0.727
3	50+35	SM/SM	157	188	0.387/0.524
3	70+35	SM/RM	199	232	0.268/0.524
3	70+50	SM/RM	199	242	0.286/0.387



NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
			IN AIR	IN GROUND	
3	95+50	SM/RM	246	280	0.193/0.387
3	120+70	SM/RM	285	318	0.153/0.268
3	150+70	SM/RM	326	359	0.124/0.268
3	185+95	SM/RM	374	406	0.099/0.193
3	240+120	SM/RM	445	473	0.075/0.153
4	6	RE	43	58	3.08
4	10	RE	59	78	1.83
4	10	RM	59	78	1.83
4	16	RM	78	107	1.15
4	25	RM	105	132	0.727
4	35	RM	129	159	0.524
4	35	SM	129	159	0.524
4	50	SM	157	188	0.387
4	70	SM	199	232	0.268
4	95	SM	246	280	0.193
4	120	SM	285	318	0.153
4	150	SM	326	359	0.124
4	185	SM	374	406	0.099
4	240	SM	445	473	0.075
5	6	RE	43	58	3.08
5	10	RE	59	78	1.83
5	10	RM	59	78	1.83
5	16	RM	78	101	1.15
5	25	RM	105	132	0.727
5	35	SM	129	159	0.524
5	50	RM	157	188	0.387
5	70	RM	199	232	0.268
5	95	RM	246	280	0.193

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.