

NYCY 0.6/1kV

VDE0276 part 603
CENELEC HD603 S2
BS EN 60228



Application

Suitable for use internally or externally, in cable ducts or in the ground.
Primarily designed for fixed wiring where increased mechanical and electrical protection is needed.

Construction

Conductor	Class1 solid copper conductor
Insulation	PVC Polyvinyl Chloride
Bedding	PVC Polyvinyl Chloride
Concentric Conductor	Copper wire & tape
Sheath	PVC Polyvinyl Chloride
Voltage Rating (Uo/U)	600/1000V
Temperature Rating Fixed:	-20°C to +70°C
Temperature Rating Flexing	-5°C to +70°C
Minimum Bending Radius	Fixed: 12 x overall diameter
Core Identification	Colour Coded
	2 core – Brown / Blue
	3 core – Brown / Black / Grey
	4 core – Brown / Black / Grey / Blue

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29001X010CY	1	10	RE/10	11.0	280
29001X016CY	1	16	RE/16	12.0	440

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29002X001.5CY	2	1.5	RE/1.5	13.0	200
29002X002.5CY	2	2.5	RE/2.5	13.6	260
29002X004CY	2	4	RE/4	15.5	360
29002X006CY	2	6	RE/6	17	435
29002X010CY	2	10	RE/10	18.5	520
29002X016CY	2	16	RE/16	20.5	720

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29003X001.5CY	3	1.5	RE/1.5	13.2	220
29003X002.5CY	3	2.5	RE/2.5	14.2	280
29003X004CY	3	4	RE/4	16.3	390
29003X006CY	3	6	RE/6	17.3	500
29003X010CY	3	10	RE/10	20	680
29003X016CY	3	16	RE/16	23.0	1010

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29004X001.5CY	4	1.5	RE/1.5	14.2	250
29004X002.5CY	4	2.5	RE/2.5	15.3	340
29004X004CY	4	4	RE/4	17.3	460
29004X006CY	4	6	RE/6	18.5	580
29004X010CY	4	10	RE/10	21	765
29004X016CY	4	16	RE/16	23.0	1030

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29005X001.5CY	5	1.5	RE/1.5	15.0	300
29005X002.5CY	5	2.5	RE/2.5	16.0	400
29005X004CY	5	4	RE/4	19.0	550
29005X006CY	5	6	RE/6	21	700
29005X010CY	5	10	RE/10	23	1000

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29007X001.5CY	7	1.5	RE/1.5	15.0	320
29007X002.5CY	7	2.5	RE/2.5	17.5	450
29007X004CY	7	4	RE/4	20.0	600
29007X004CY	7	6	RE/6	22.5	790

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29008X001.5CY	8	1.5	RE/1.5	18.4	410
29008X002.5CY	8	2.5	RE/2.5	18.0	510

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29010X001.5CY	10	1.5	RE/2.5	18.4	410
29010X002.5CY	10	2.5	RE/4	20.5	600

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29014X001.5CY	14	1.5	RE/2.5	18.4	410
29014X002.5CY	14	2.5	RE/4	20.5	600

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29016X001.5CY	16	1.5	RE/4	20.0	620
29016X002.5CY	16	2.5	RE/6	22.5	800

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29019X001.5CY	19	1.5	RE/4	22.5	660
29019X002.5CY	19	2.5	RE/6	23.5	950

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29021X001.5CY	21	1.5	RE/6	23.0	790
29021X002.5CY	21	2.5	RE/10	26.0	1100

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29024X001.5CY	24	1.5	RE/6	25.5	860
29024X002.5CY	24	2.5	RE/10	27.6	1150

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29030X001.5CY	30	1.5	RE/6	26.5	1020
29030X002.5CY	30	2.5	RE/10	29.5	1610

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29040X001.5CY	40	1.5	RE/10	30.0	1280
29040X002.5CY	40	2.5	RE/10	33.0	1660

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29052X001.5CY	52	1.5	RE/10	32.0	1600
29052X002.5CY	52	2.5	RE/10	35.0	2000

Premier Part No	No of Cores	Nominal Cross Section mm ²	Conductor Type	Nominal Diameter Overall mm ²	Nominal Weight kg/km
29061X001.5CY	61	1.5	RE/10	32.0	1600
29061X002.5CY	61	2.5	RE/10	35.0	2000

Class 1 solid conductors for single and multi-core cable

Nominal Cross Section mm ²	Max. Resistance of Conductor at 20°C ohms/km
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83
16	1.15

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	Current Carrying Capacity	
	In Ground 20°C	In Air 30°C
	amps	amps
1.5	27	19
2.5	36	26
4	47	34
6	59	44
10	79	60
16	102	80

The information contained within this data sheet is for guidance only.
 Cable and gland sizes are nominal and may vary according to different manufacturer's tolerances.
 Every possible effort is made to ensure that the Information contained in this data sheet is correct.
 However, we reserve the right to change the information or specification at any time in the light of technical developments or revisions.
 References to or extracts from British Standards, current IEE regulations or other regulatory bodies should be verified with these organisations.