

# NYY-1 / YY-1

## Multi Core (Cu/PVC/PVC)

### APPLICATION

The auxiliary cable is used in supervisory electrical equipment and station control circuits, in light, ordinary or heavy duty industry where power distribution device is needed to transmit control signals or measure signal operations.

### STANDARD

IEC 60502-1  
VDE 0271/3.69 & DIN VDE 0276-603

### VOLTAGE GRADE

U<sub>0</sub>/U (Um) : 0.6/1.0 (1.2) kV  
Permissible Service Voltage: 0.72/1.2 kV

### COLOR

Insulated core : **1** (Black with number print)  
Sheath : **■** (Black or Other Colors available on request)

### CONSTRUCTION

**Conductor:** Solid or Stranded Circular, Plain annealed Copper, Class 1 or Class-2 to IEC 60228  
**Insulation:** PVC, PVC/A to IEC 60502-1  
**Binder:** Polyester or PVC tape  
**Sheath:** PVC, ST-1 to IEC 60502-1



PHYSICAL DATA & ELECTRICAL DATA						ELECTRICAL DATA				
Nominal cross sectional area	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Ground at 30 °C		Current Carrying Capacity in Air at 35 °C	
							Direct laid	In duct	Open	In pipes
Core x mm <sup>2</sup>	no./mm	mm	mm	mm	kg/km	W/km	amp	amp	amp	amp
5 x 1.5 re	1/1.38	0.8	1.8	12.6	206	12.1	18	14	13	9
7 x 1.5 re	1/1.38	0.8	1.8	13.5	258	12.1	16	12	12	9
10 x 1.5 re	1/1.38	0.8	1.8	16.4	351	12.1	13	10	10	7
12 x 1.5 re	1/1.38	0.8	1.8	16.9	399	12.1	12	9	9	6
16 x 1.5 re	1/1.38	0.8	1.8	18.5	507	12.1	11	8	8	5
21 x 1.5 re	1/1.38	0.8	1.8	20.3	635	12.1	9	6	7	4
24 x 1.5 re	1/1.38	0.8	1.8	22.4	712	12.1	9	6	7	4
30 x 1.5 re	1/1.38	0.8	1.8	23.6	851	12.1	8	5	6	3
5 x 2.5 re	1/1.78	0.8	1.8	14.2	289	7.41	24	19	19	14
7 x 2.5 re	1/1.78	0.8	1.8	15.3	360	7.41	21	16	17	12
10 x 2.5 re	1/1.78	0.8	1.8	18.8	490	7.41	18	14	14	10
12 x 2.5 re	1/1.78	0.8	1.8	19.4	567	7.41	16	12	13	9
16 x 2.5 re	1/1.78	0.8	1.8	21.3	727	7.41	14	10	11	8
21 x 2.5 re	1/1.78	0.8	1.8	23.5	920	7.41	13	9	10	7
24 x 2.5 re	1/1.78	0.8	1.8	26.4	1059	7.41	12	8	9	6
30 x 2.5 re	1/1.78	0.8	1.8	27.8	1274	7.41	10	7	8	5
5 x 4 rm	7/0.85	1.0	1.8	16.8	402	4.61	31	25	25	19
7 x 4 rm	7/0.85	1.0	1.8	18.2	544	4.61	27	22	22	17
10 x 4 rm	7/0.85	1.0	1.8	22.7	708	4.61	23	18	19	15
12 x 4 rm	7/0.85	1.0	1.8	22.4	837	4.61	21	16	17	13

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-17

### Characteristics



### Installation condition

