

NYR**G**y-1 / YRGY-1

Multi Core (Cu or Al/PVC/SWA/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, where mechanical damages are not to be expected.

STANDARD

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

VOLTAGE GRADE

U₀/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 Circular, Plain annealed Copper, Class 1 to IEC 60228
Insulation: PVC, PVC/A to IEC 60502-1
Binder (optional): Polyester or Non-woven tape
Inner covering: PVC, ST-1 to IEC 60502-1
Armour: Round Galvanized Steel wire to IEC 60502-1
Binder (optional): Galvanized Steel tape to IEC 60502-1
Sheath: PVC, ST-1 to IEC 60502-1



PHYSICAL DATA							ELECTRICAL DATA				
Nominal cross sectional area of conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal diameter of round steel wire armour	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	
						Cu		Direct laid	In duct	Open	In pipes
Core x mm ²	nos./mm	mm	mm	mm	mm	kg/km	W/km	amp	amp	amp	amp
5 x 1.5 re	1/1.38	0.8	1.25	1.8	16.7	545	12.1	18	14	13	9
7 x 1.5 re	1/1.38	0.8	1.25	1.8	17.5	620	12.1	16	12	12	8
10 x 1.5 re	1/1.38	0.8	1.25	1.8	20.7	805	12.1	13	10	10	7
12 x 1.5 re	1/1.38	0.8	1.25	1.8	21.5	885	12.1	12	9	9	6
19 x 1.5 re	1/1.38	0.8	1.25	1.8	25.0	1280	12.1	10	7	7	5
24 x 1.5 re	1/1.38	0.8	1.25	1.8	27.8	1510	12.1	9	6	6	4
37 x 1.5 re	1/1.38	0.8	1.6	1.9	31.2	1960	12.1	8	5	5	3
5 x 2.5 re	1/1.78	0.8	1.25	1.8	18.0	650	7.41	24	20	19	15
7 x 2.5 re	1/1.78	0.8	1.25	1.8	19.0	750	7.41	21	17	17	13
10 x 2.5 re	1/1.78	0.8	1.25	1.8	22.5	980	7.41	18	14	14	10
12 x 2.5 re	1/1.78	0.8	1.25	1.8	23.0	1060	7.41	16	12	13	10
19 x 2.5 re	1/1.78	0.8	1.6	1.8	26.9	1560	7.41	14	10	12	9
24 x 2.5 re	1/1.78	0.8	1.6	1.9	30.6	1880	7.41	13	9	11	8
37 x 2.5 re	1/1.78	0.8	1.6	2.0	34.5	2480	7.41	9	6	7	5

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

