

NYRGbY / NAYRGbY or YRGY / AYRGY | 4 Core (Cu or Al/PVC/SWA/PVC)

APPLICATION

Power Plant Generator Industrial Power Circuit Power Transmission Distribution Networks Switch Gear

*REACH I RoHS I CE

CONSTRUCTION

Conductor: Stranded Circular/ Sector Shaped, Plain annealed Copper or Aluminium, Class-2 to BDS IEC 60228, IS 8130
Insulation : PVC, PVC/A to BDS IEC 60502-1, IS 5831
Option: HR PVC Type C to IS 5831
Inner covering: PVC, ST1 to BDS IEC 60502-1, IS 5831
Armour: Round Galvanized Steel wire to BDS IEC 60502-1, IS 3975
Binder (optional): Galvanized Steel tape to BDS IEC 60502-1, IS 3975
Sheath: PVC, ST1 to BDS IEC 60502-1, IS 5831
Option: PVC Type ST2 to BDS IEC 60502-1, IS 5831/FR Type/ FRLS Type



VOLTAGE GRADE

Uo/U (Um) : 0.6/1.0 (1.2) kV
Permissible Service Voltage: 0.72/1.2 kV
Test Voltage: 3.5 kV

OPERATING TEMP

- 20°C to +70°C
 Max Short Circuit 160°C

MIN. BENDING RADIUS

For Single Core
 Approx. 15x Cable Diameter
For Multicore
 Approx. 12x Cable Diameter

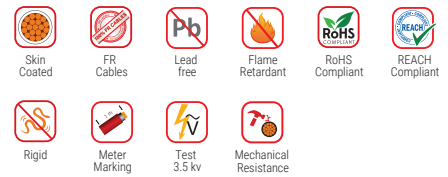
STANDARD

VDE 0271/3.69
 DIN VDE 0276-603
 BDS IEC 60502-1
 IS 1554-1

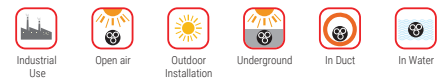
COLOR

Insulated Core: ● Red
 ● Yellow
 ● Blue
 ● Black
Sheath: ● (Black or other colors available on request)

CHARACTERISTICS



INSTALLATION CONDITION



CABLE DESIGN PARAMETER

PHYSICAL DATA								ELECTRICAL DATA									
Nominal cross sectional area of conductor	No. of strands & diameter of wire Cu/Al	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			
						kg/km	kg/km	Copper	Aluminium	Copper		Aluminium		Copper		Aluminium	
										Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
mm ²	nos./mm	mm	mm	mm	mm	kg/km	kg/km	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 25 rm	7/2.14	1.2	1.6	1.8	30.0	2135	1497	0.727	1.20	110	81	86	64.54	98	62	76	47
4 x 35 sm	19 wire	1.2	1.6	1.9	30.1	2620	1733	0.524	0.868	130	94	101	74.1	120	74	93	56
4 x 50 sm	19 wire	1.4	2.0	2.1	34.5	3525	2257	0.387	0.641	155	114	120	89.66	150	93	116	70
4 x 70 sm	19 wire	1.4	2.0	2.3	39.5	4675	2892	0.268	0.443	190	140	148	111	190	116	148	88
4 x 95 sm	19 wire	1.6	2.5	2.4	45.2	6450	4044	0.193	0.320	225	166	175	131.6	230	134	179	100
4 x 120 sm	37 wire	1.6	2.5	2.5	48.6	7640	4601	0.153	0.253	260	193	202	153.2	270	162	210	122
4 x 150 sm	37 wire	1.8	2.5	2.7	52.0	9150	5348	0.124	0.206	295	220	229	174.8	305	180	237	135
4 x 185 sm	37 wire	2.0	2.5	2.9	58.3	11050	6369	0.0991	0.164	330	246	257	195.88	350	210	272	158
4 x 240 sm	61 wire	2.2	2.5	3.1	63.0	13850	7751	0.0754	0.125	385	286	299	226.26	410	241	318	180
4 x 300 sm	61 wire	2.4	2.5	3.3	70.1	17300	9581	0.0601	0.100	425	312	329	249.54	470	278	364	220

LOW VOLTAGE