Power & distribution cables

EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE

Power Cable



HD 603 S1 / IEC 60502-1 · 0.6/1 kV · -15°C to +70°C · Min. bend 12 × OD

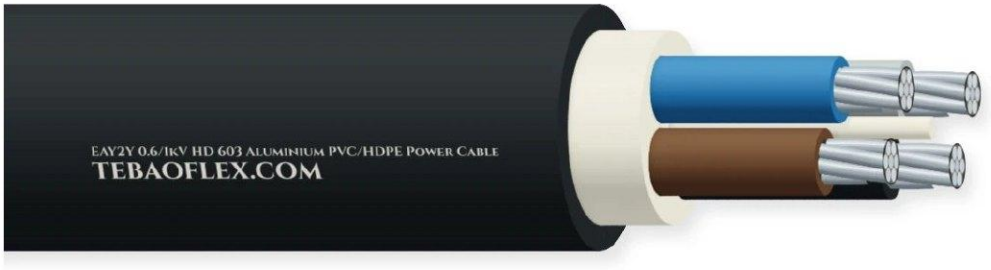
HD 603 S1 / IEC 60502-1 | 0.6/1 kV

Application

EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE Power Cable manufactured to HD 603 S1 / IEC 60502-1, rated 0.6/1 kV and -15°C to +70°C with a 12 × OD minimum bending radius for infrastructure & construction installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	**Conductor**	4×25 mm² RM Class 2 Stranded Al
2	**Insulation & Core Identification**	HD 603 PVC core insulation (25 mm² Class 2 Stranded Aluminium)
3	**Screen / Bedding / Armour Layer**	Extruded plastomeric core filler
4	**Outer Protective Sheath**	Black High-Density Polyethylene (HDPE ST7) outer sheath (OD 24.0 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4×25 mm² RM Class 2 Stranded Al · HD 603 PVC core insulation (25 mm² Class 2 Stranded Aluminium)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-15°C to +70°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	HD 603 S1 / IEC 60502-1
Minimum bending radius	12 × OD	Screening / armour architecture	Extruded plastomeric core filler
Outer sheath material & colour	Black High-Density Polyethylene (HDPE ST7) outer sheath (OD 24.0 mm)	Standards	HD 603 S1 / IEC 60502-1

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Conductor weight kg/km	Cable weight kg/km	Key electrical / optical rating
EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE 3 sizes										
☐ EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE (4×25 mm²)	4×25 mm²	Class 2 Compacted Stranded Aluminium	HD 603 PVC core insulation	Outdoor PE	24.0	288	1.13	361.0	950	81 A
☐ EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE (4×35 mm²)	4×35 mm²	Class 2 Compacted Stranded Aluminium	HD 603 PVC core insulation	Outdoor PE	28.3	340	0.81	502.7	1,323	101 A
☐ EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE (4×50 mm²)	4×50 mm²	Class 2 Compacted Stranded Aluminium	HD 603 PVC core insulation	Outdoor PE	33.1	397	0.56	687.8	1,810	122 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ HD 603 S1 / IEC 60502-1 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/eay2y-0-6-1kv-hd-603-aluminium-pvc-hdpe-power-cable

Typical values for this cable type, based on Reference specification per HD 603 S1 / IEC 60502-1 (EAY2Y 0.6/1kV HD 603 Aluminium PVC/HDPE). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.