Power & distribution cables

RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola

NI 56.43.01

UNE-HD 620-9E / Iberdrola NI 56.43.01 · 12/20–18/30 kV · -30°C to +105°C · 15 × OD

UNE-HD 620-9E / Iberdrola NI 56.43.01 | 12/20–18/30 kV



Application

RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola NI 56.43.01 manufactured to UNE-HD 620-9E / Iberdrola NI 56.43.01, rated 12/20 (24) kV – 18/30 (36) kV and -30°C to +105°C with a 15 × OD minimum bending radius for renewable energy 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	1×240/16 mm² Compacted Al + Swellable Tape
2	Insulation & Core Identification	UNE-HD 620 H5 high-modulus 105°C XLPE dielectric (240 mm² Aluminium)
3	Screen / Bedding / Armour Layer	Semi-conductive longitudinal water-swellable tape (OL) + Helical copper wire screen (16 mm²) + equalising copper tape + Bonded Aluminium/Polyethylene radial moisture barrier (2OL)
4	Outer Protective Sheath	Black DMZ2 halogen-free polyolefin sheath with red longitudinal stripes (OD 36.8 mm)

Technical data

Typical values

Nominal / reference voltage	12/20 (24) kV – 18/30 (36) kV	Conductor & core insulation	1×240/16 mm² Compacted Al + Swellable Tape · UNE-HD 620 H5 high-modulus 105°C XLPE dielectric (240 mm² Aluminium)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-30°C to +105°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	UNE-HD 620-9E / Iberdrola NI 56.43.01
Minimum bending radius	15 × OD	Screening / armour architecture	Semi-conductive longitudinal water-swellable tape (OL) + Helical copper wire screen (16 mm²) + equalising copper tape + Bonded Aluminium/Polyethylene radial moisture barrier (2OL)
Outer sheath material & colour	Black DMZ2 halogen-free polyolefin sheath with red longitudinal stripes (OD 36.8 mm)	Standards	UNE-HD 620-9E / Iberdrola NI 56.43.01

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
RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola 3 sizes										
☐ RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola (1×240/16 mm²)	1×240/16 mm²	Class 2 Watertight Compacted Aluminium	UNE-HD 620 H5 high-modulus 105°C XLPE dielectric	LSZH Jacket	36.8	552	0.12	848.9	2,234	336 A
☐ RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola (1×300/16 mm²)	1×300/16 mm²	Class 2 Watertight Compacted Aluminium	UNE-HD 620 H5 high-modulus 105°C XLPE dielectric	LSZH Jacket	43.4	651	0.09	1,182.2	3,111	385 A
☐ RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola (1×400/16 mm²)	1×400/16 mm²	Class 2 Watertight Compacted Aluminium	UNE-HD 620 H5 high-modulus 105°C XLPE dielectric	LSZH Jacket	50.8	762	0.07	1,616.9	4,255	445 A

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

Standards and approvals

- ✓ UNE-HD 620-9E / Iberdrola NI 56.43.01 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/rh5z1-ol-rh5z1-2ol-12-20kv-18-30kv-iberdrola-ni-56-43-01**

Typical values for this cable type, based on Reference specification per UNE-HD 620-9E / Iberdrola NI 56.43.01 (RH5Z1-OL / RH5Z1-2OL 12/20kV–18/30kV Iberdrola). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.