Power & distribution cables

EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV

Synergrid



NBN HD 620-10C / Synergrid · 8.7/15–12/20 kV · -25°C to +90°C · Min. bend 15 × OD

NBN HD 620-10C / Synergrid | 8.7/15–12/20 kV

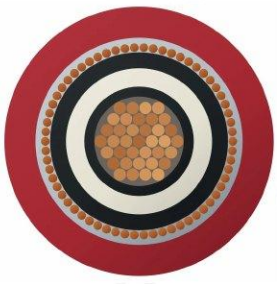
Application

EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV Synergrid manufactured to NBN HD 620-10C / Synergrid, rated 8.7/15 (17.5) kV – 12/20 (24) kV and -25°C to +90°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	1×185/25 mm² Watertight Cu (e)
2	Insulation & Core Identification	Synergrid EXeCeG XLPE dielectric (185 mm² Watertight Copper)
3	Screen / Bedding / Armour Layer	Semi-conductive longitudinal water-swellable tape (e) + Helical copper wire screen (25 mm²) + copper tape + Aluminium/PE radial water-blocking laminate barrier
4	Outer Protective Sheath	Red HFFR / LSZH outer sheath (OD 33.4 mm)

Technical data

Typical values

Nominal / reference voltage	8.7/15 (17.5) kV – 12/20 (24) kV	**Conductor & core insulation**	1×185/25 mm² Watertight Cu (e) · Synergrid EXeCeG XLPE dielectric (185 mm² Watertight Copper)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	**Operating temperature range**	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	**Flame & fire performance**	NBN HD 620-10C / Synergrid
Minimum bending radius	15 × OD	**Screening / armour architecture**	Semi-conductive longitudinal water-swellable tape (e) + Helical copper wire screen (25 mm²) + copper tape + Aluminium/PE radial water-blocking laminate barrier
Outer sheath material & colour	Red HFFR / LSZH outer sheath (OD 33.4 mm)	**Standards**	NBN HD 620-10C / Synergrid

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	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV 3 sizes										
☐ EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV (1×185/25 mm²)	1×185/25 mm²	Class 2 Stranded Plain Copper	Synergrid EXeCeG XLPE dielectric	LSZH Jacket	33.4	501	0.10	1,363.4	2,622	371 A
☐ EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV (1×240/25 mm²)	1×240/25 mm²	Class 2 Stranded Plain Copper	Synergrid EXeCeG XLPE dielectric	LSZH Jacket	39.4	591	0.08	1,898.0	3,650	436 A
☐ EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV (1×300/25 mm²)	1×300/25 mm²	Class 2 Stranded Plain Copper	Synergrid EXeCeG XLPE dielectric	LSZH Jacket	46.1	692	0.06	2,596.4	4,993	500 A

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

Standards and approvals

- ✓ NBN HD 620-10C / Synergrid 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/execeg-execwb-execg-8-7-15kv-12-20kv-synergrid**

Typical values for this cable type, based on Reference specification per NBN HD 620-10C / Synergrid (EXeCeG / EXeCWB / EXeCG 8.7/15kV–12/20kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.