Power & distribution cables

FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV

Cable

CEI 20-13 / IEC 60502-2 · 3.6/6–12/20 kV · -25°C to +90°C · Min. bend 15 × OD



CEI 20-13 / IEC 60502-2 | 3.6/6–12/20 kV

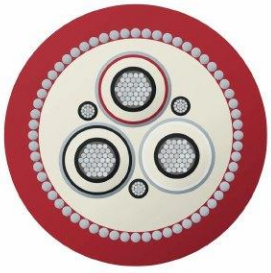
Application

FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV Cable manufactured to CEI 20-13 / IEC 60502-2, rated 3.6/6 kV / 6/10 kV / 8.7/15 kV / 12/20 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**	3×35 mm² + 1×16 mm² Earth Class 5 Flexible Tinned Cu
2	**Insulation & Core Identification**	CEI 20-13 G7 HEPR rubber dielectric (35 mm² Class 5 Flexible Tinned Cu)
3	**Screen / Bedding / Armour Layer**	Extruded flame-retardant PVC inner bedding sheath + Non-magnetic Aluminium Alloy Wire Armour (OAR)
4	**Outer Protective Sheath**	Red RZ flame-retardant PVC outer sheath (OD 44.5 mm)

Technical data

Typical values

Nominal / reference voltage	3.6/6 kV / 6/10 kV / 8.7/15 kV / 12/20 kV	Conductor & core insulation	3×35 mm² + 1×16 mm² Earth Class 5 Flexible Tinned Cu · CEI 20-13 G7 HEPR rubber dielectric (35 mm² Class 5 Flexible Tinned Cu)
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	CEI 20-13 / IEC 60502-2
Minimum bending radius	15 × OD	Screening / armour architecture	Extruded flame-retardant PVC inner bedding sheath + Non-magnetic Aluminium Alloy Wire Armour (OAR)
Outer sheath material & colour	Red RZ flame-retardant PVC outer sheath (OD 44.5 mm)	Standards	CEI 20-13 / IEC 60502-2

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
FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV 3 sizes										
☐ FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV (3×35 mm²)	3×35 mm²	Class 5 Flexible Tinned Copper	CEI 20-13 G7 HEPR rubber dielectric	Industrial PVC	44.5	668	0.52	2,420.1	4,654	131 A
☐ FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV (3×50 mm²)	3×50 mm²	Class 5 Flexible Tinned Copper	CEI 20-13 G7 HEPR rubber dielectric	Industrial PVC	52.5	788	0.36	3,369.6	6,480	159 A
☐ FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV (3×70 mm²)	3×70 mm²	Class 5 Flexible Tinned Copper	CEI 20-13 G7 HEPR rubber dielectric	Industrial PVC	61.4	921	0.26	4,608.2	8,862	202 A

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

Standards and approvals

- ✓ CEI 20-13 / IEC 60502-2 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/fg7h1oar-3-6-6kv-12-20kv-cei-20-13-flexible-mv-cable**

Typical values for this cable type, based on Reference specification per CEI 20-13 / IEC 60502-2 (FG7H1OAR 3.6/6kV–12/20kV CEI 20-13 Flexible MV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.