



UIC 552 3 kV / 800 A HV HEP rail jumper

UIC 552 Jumper Assembly

1,000–3,000 V AC/DC up to 800 A UIC 552 High-Voltage Train Line (ZS / HEP) jumper

UIC 552 (ZS / HEP)

1,000–3,000 V / 800 A

EN 45545-2 HL3

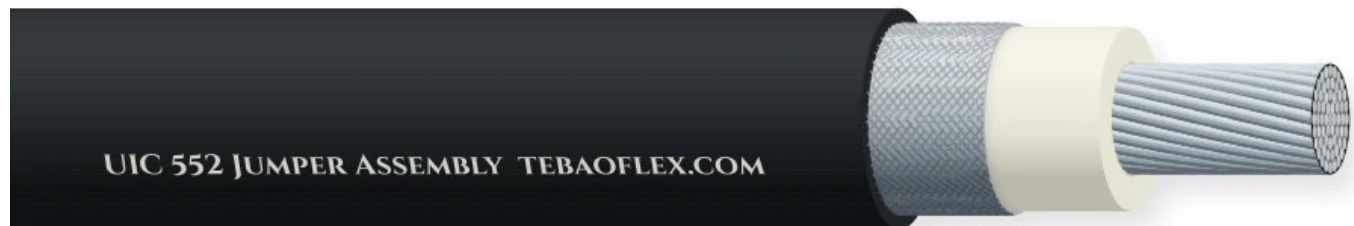


Application

Single-pole high-voltage railway Head-End Power (HEP / ZS) inter-coach jumper built to UIC 552, EN 50264-2-1 (3.6/6 kV) and EN 45545-2 HL3 for 1,000 V 16.7/50 Hz, 1,500 V AC/DC and 3,000 V DC hotel power buses up to 800 A.

Typical uses: RIC International Passenger Coaches, Locomotive-Hauled Push-Pull Consists, High-Speed & Night-Train Hotel Power (HEP), Multi-System Cross-Border Rolling Stock, Railway Depot Shore-Supply (Vorheizanlage) Cables

Construction



Cross-section, not to scale

- 1 Extra-flexible Class 6 tinned copper HV core
- 2 Semiconductive stress-smoothing tape/layer
- 3 1.8/3 kV or 3.6/6 kV cross-linked HV dielectric
- 4 Optional concentric earth / safety pilot braid
- 5 Heavy-duty EN 45545-2 HL3 outer elastomer sheath

Technical data

Typical values

Nominal UIC 552 system voltages	1,000 V AC (16.7/50 Hz) · 1,500 V AC/DC · 3,000 V DC	Cable rated voltage (U0/U)	1.8/3 (3.6) kV or 3.6/6 (7.2) kV to EN 50264 / EN 50382
Rated continuous current	400 A (95 mm ²) · 630 A (150 mm ²) · 800 A (185/240 mm ²)	Main contact resistance	≤ 0.15 mΩ (silver-plated lamellar / crown contact)
AC dielectric routine test	6.5 kV AC (1.8/3 kV) or 11.0 kV AC (3.6/6 kV) for 5 min	Ambient operating range	–40 °C to +85 °C (silicone variant to +120 °C)
Max. short-circuit temperature	+250 °C (up to 40 kA dynamic peak)	Conductor cross-sections	95 mm ² , 120 mm ² , 150 mm ² , 185 mm ² or 240 mm ² Class 6
Safety interlock system	Mechanical key / pilot switch interlock per UIC 552	Shock & vibration	IEC 61373 Category 2 (coach headstock mounted)
Min. bend radius	5 × OD static · 6 × OD dynamic inter-coach loop	Fire & smoke safety	EN 45545-2 HL3 (R15/R16)
Ingress protection	IP66 / IP67 mated in HV socket or dummy parking socket	Trackside environment	Ballast stone impact, ozone, mineral oil & acid wash
Standards	UIC Leaflet 552 / RIC Regulations	Standard packing	Heavy-duty timber crate or carton with individual 11 kV HV test report

Sizes

12 standard constructions

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

Order designation	Cross-Section & Build	Max Current A	Cable U0/U kV	Length mm	Cable OD mm	Assy Wt kg
Inter-Coach UIC 552 Plug-to-Junction-Box (PJ) & Plug-to-Plug (PP) Jumpers 8 sizes						
☐ UIC552-PJ-1X95-1500	1×95 mm ² Class 6 (Plug → Lug)	425 A	3.6/6 kV	1,500	24.5	5.2
☐ UIC552-PJ-1X120-1500	1×120 mm ² Class 6 (Plug → Lug)	520 A	3.6/6 kV	1,500	26.8	5.9
☐ UIC552-PJ-1X150-1500	1×150 mm ² Class 6 (Plug → Lug)	630 A	3.6/6 kV	1,500	29.0	6.7
☐ UIC552-PJ-1X150-1800	1×150 mm ² Class 6 (Plug → Lug)	630 A	3.6/6 kV	1,800	29.0	7.4
☐ UIC552-PJ-1X185-1500	1×185 mm ² Class 6 (Plug → Lug)	800 A	3.6/6 kV	1,500	31.5	7.8
☐ UIC552-PJ-1X185-1800	1×185 mm ² Class 6 (Plug → Lug)	800 A	3.6/6 kV	1,800	31.5	8.6
☐ UIC552-PP-1X185-1600	1×185 mm ² Class 6 (Plug ↔ Plug)	800 A	3.6/6 kV	1,600	31.5	10.2
☐ UIC552-PJ-1X240-1600	1×240 mm ² Class 6 (Plug → Lug)	800 A+	3.6/6 kV	1,600	35.0	9.8
Screened / Pilot-Monitored & Depot Pre-Heating UIC 552 Assemblies 4 sizes						
☐ UIC552-PJ-1X150C25-1600	1×150 mm ² + 25 mm ² Earth Screen	630 A	3.6/6 kV	1,600	31.2	7.6
☐ UIC552-PJ-1X185C35-1600	1×185 mm ² + 35 mm ² Earth Screen	800 A	3.6/6 kV	1,600	33.8	8.9
☐ UIC552-DEPOT-1X150-10M	1×150 mm ² + Pilot Depot Pre-Heat	630 A	3.6/6 kV	10,000	31.2	29.5
☐ UIC552-DEPOT-1X185-15M	1×185 mm ² + Pilot Depot Pre-Heat	800 A	3.6/6 kV	15,000	33.8	49.0

– All assemblies are routine dielectric-tested at 11.0 kV AC rms for 5 minutes and supplied with matching HV warning plates and test certificates.

Standards and approvals

- ✓ UIC Leaflet 552 / RIC High-Voltage Train Line Compliant
- ✓ EN 45545-2 HL3 & EN 50264-2-1 (3.6/6 kV) Certified

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/uic-552-high-voltage-head-end-power-hep-train-line-inter-vehicle-jumper-assembly



Typical values for this cable type, based on UIC 552 / EN 50264-2-1 / EN 45545-2 HL3 / IEC 61373. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.