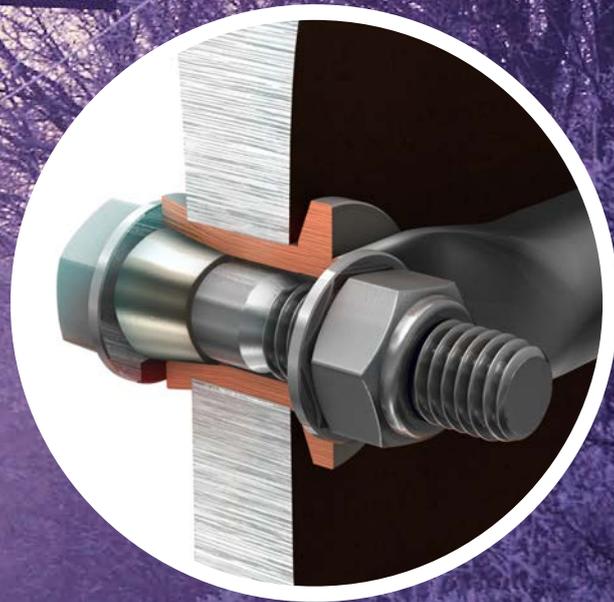


SafePlug®

Patented cable connection system for
grounding, signalling and return current



Developed for the
toughest environmental conditions



Safely connecting the world!

SafePlug®

SafePlug® is the new generation of rail web connections with optimal performance. SafePlug® is developed to obtain as low transition resistance as possible between the cable lug and rail.

The specially designed, patented contact cone allows a much greater contact pressure and maintains the pressure to withstand vibrations in the rail even in large temperature changes. The electrical interfaces and contact surface are also significantly increased thanks to this design.

Built for extreme temperatures

Temperature changes cause rails to expand and contract, creating continuous mechanical stress on electrical connections. SafePlug® is engineered to maintain stable and reliable contact pressure under these demanding conditions, ensuring long-term electrical performance.

– From the **Polar Circle** to the **hottest Australia**.



More efficient assembly

Users do not have to use heavy hydraulics in the work place. Use the small mounting tool and the same torque wrench used to assemble the cables or a cordless drill to expand the copper bushing in the drilled hole in the rail. This means significantly lower investment costs and less need for maintenance service.

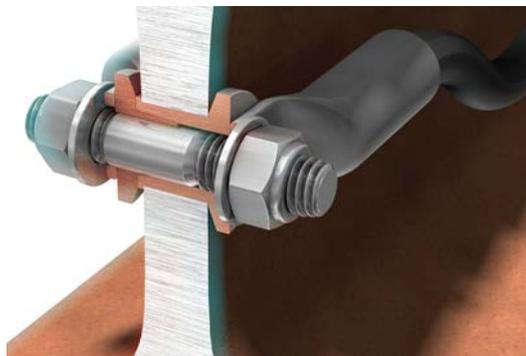


Lightweight pocket-sized tool

SafePlug® Combi – Flexible cable connections of one or more cables

SafePlug® Combi has the same technology to resist differences in temperature, vibration and corrosion as the rest of the SafePlug® range. This is thanks to the revolutionary patented contact cone technology.

SafePlug® Combi enables cables to be fixed on both sides of the rail, or on one side only, and can at any time be removed and reinstalled. The same SafePlug® Combi remains mounted throughout.



**Secure
against large
temperature
differences**

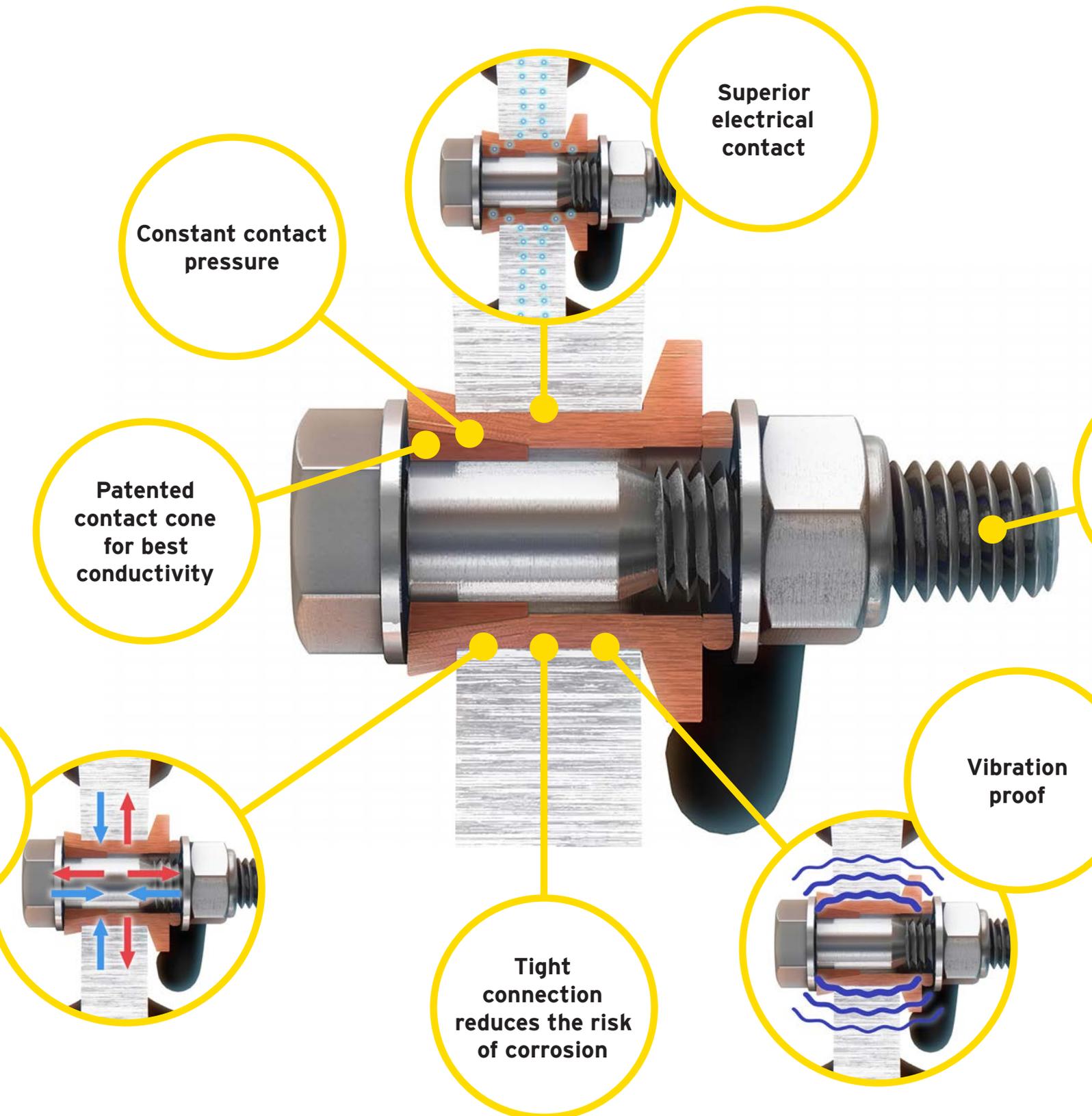
**Tested by NEFI
High Power
Laboratory (ABB)**

**M10 - 25.000A during 1 sec
44.000A peak value
M12 - 35.000A during 1 sec
58.000A peak value**

Designed for harsh climate conditions

SafePlug® is designed for harsh climates, delivering constant contact pressure and superior electrical performance in every connection. The high-strength, acid-proof stainless steel bolt (A4-80) and patented contact cone ensure reliable conductivity.

Engineered to withstand large temperature differences and vibrations, SafePlug® provides a tight, corrosion-resistant connection for demanding environments.



Flexible Solutions for Every Need

SafePlug® Single: Perfect for a single connection, offering simplicity and reliability.

SafePlug® Combi: Designed for multiple cables, ensuring secure and efficient connections

Enhance durability with the Hardlock self-locking nut option, providing extra security against loosening. SafePlug® is available in sizes M6 to M16 and supports all web sizes, delivering tailored solutions for any application.



SafePlug® Single



SafePlug® Combi for multiple cables



Hardlock self-locking nut

The convex fixing nut is locked in place with the concave locking nut. The Hardlock Nut will stay intact through heat, high power throughput and the most severe vibrations. SafePlug® not included.



**High strength
acid proof
stainless steel
A4-80**

Dimension	Part No.	Drill Ø mm	Web size mm	Tool
M6	59027BD	8	13,5 – 15,5	59104BD
M6	59028BD	8	16 – 17,5	59104BD
M10	59023BD	13,5	12 – 16,5	59102BD
M10 Combi	590260BD	13,5	12 – 16,5	59102BD
M10 Switches	59024BD	13,5	30 – 32	59102BD2
M12	59021BD	19	12 – 16,5	59101BD
M12 HT high torque	59031BD	19	12 – 16,5	59101BD
M12 Combi	590225BD	19	12 – 16,5	59101BD
M12 Ø22 mm	590211BD	22	13,5 – 17,5	59106BD
M12 Ø22 mm	590212BD	22	18 – 22	59106BD
M12 Ø22 mm Combi	590230BD	22	13,5 – 17,5	59106BD
M14	59038BD	28,5	12 – 16,5	59108BD
M16	59018BD	22	12,5 – 16,5	59103BD
M16	59019BD	22	18 – 22	59103BD
M16 Combi	59014BD	22	12,5 – 16,5	59103BD
 M12 Single	59022DBD	19	12 – 16,5	59101BD
 M12 Single XL	590220DBD	19	12 – 16,5	59101BD
 M12 Combi	590228DBD	19	12 – 16,5	59101BD

Accessories

Tools and consumables

See our wide range of accessories and consumables
www.safetrack.se

Rail-Line Core Drill

Carbide annular cutters with optimally angled, specially treated Sandviken teeth



∅19 mm ● Part no. 59RLK19R
∅22 mm ● Part no. 59RLK22R
∅33 mm ● Part no. 59RLK33R

Blue-Line Rail Core Drill

Powder steel with patented Durablue coating for the hardest surface drilling



∅19 mm ● Part no. 59SBK190
∅22 mm ● Part no. 59SBK220
∅33 mm ● Part no. 59SBK330

Drill-Line Rail Twist Drill

Powder steel with patented Durablue coating for the hardest surface drilling



∅13,5 mm (d. 30 mm) ● Part no. 59SBW135
∅13,5 mm (d. 40 mm) ● Part no. 59SBW136



Assembly Tool

M6 ● Part no. 59104BD
M10 ● Part no. 59102BD
M12 ● Part no. 59101BD
M16 ● Part no. 59103BD



Hole Gauge / Counterhold

M6 ● Part no. 59106400
M10/M12 ● Part no. 591085
M12/M16 ∅22mm ● Part no. 591098



Torque Wrench

Analogue 40–200 Nm ● Part no. 59106
Digital 20–100 Nm ● Part no. 59106305
Digital 40–200 Nm ● Part no. 59106310



Chamfering Tool 25mm

● Part no. 59104



Super Drilling Paste

Friction-modifying special drilling paste
No more heavy coolant bottles
● Part no. 59579



Magnetic Swarf Wand

Removes your drilling chips like magic
● Part no. 59104020



Cordless Drill/Driver

18V compact drill/driver (brushless)
incl. 2 batteries and charger
● Part no. 59105200



Start kits

M10 ● Part no. 5910210BD
M12 ● Part no. 5910110BD



Bushing Removal Tool

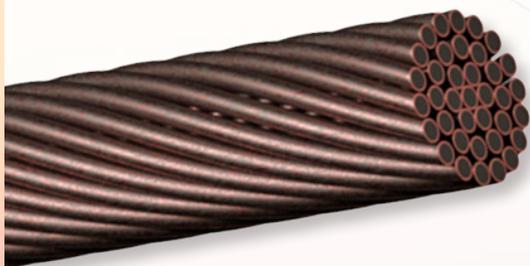
M6 ● Part no. 59103011
M10/M12 ● Part no. 59103010
M12/M16∅22mm ● Part no. 59103016



Safetrack Baavhammar AB
Möllebergavägen 339-24
245 93 Staffanstorp, Sweden

Tel: +46 (0)40 44 53 00
email: sales@safetrack.se
web: www.safetrack.se

SAFE CABLE™
THEFT DETERRENT CABLE



The unique SafeCable® is made of soft annealed steel and copper wires, to make it as flexible as possible to withstand vibrations in the rail. The steel and copper are metallurgically bonded together. The copper on the outside ensure good contact when crimping sleeves with the cable. The electrical conductivity is 53% of the same size of a copper cable.

The cable is magnetic which means that thieves who check with magnets for copper avoid stealing the cable but if they anyway try to cut it they find it hard to cut and a great disappointment waiting for them at the recycling companies.

The cable has no scrap value!

Training / Services

Safetrack AB has extensive experience in the railway industry and offers the very highest service and customer satisfaction with training on site.

Quality – Tested & approved

Safetrack material is thoroughly tested by third party, on site and in our own laboratory for corrosion resistance, fatigue tests etc.



Safetrack® is ISO 9001 & 14001 certified



SafePlug® approved by

BANE NOR

Norway

VR

Finland

ÖBB

Austria

DB

Germany

TCDD

Turkey

Göteborgs Spårvägar

Sweden

TRAFIKVERKET

Sweden