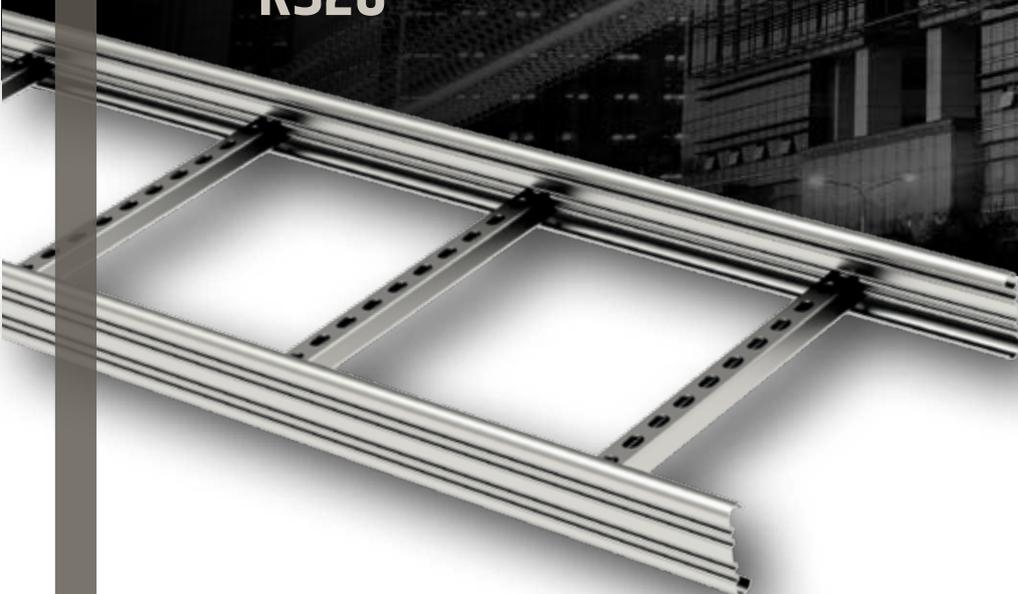




SOME SEE JUST A CABLE

WE SEE  
ONE WORLD  
CONNECTED

• CABLE LADDERS FOR BUILDINGS  
- KS20



# SURFACE TREATMENTS AND CORROSION CATEGORIES

Selection of the required surface treatment on the basis of the prevailing ambient conditions.

SURFACE TREATMENT OPTIONS				
Marking	Surface treatment	Corrosion category	Galvanization standard	
<b>EG (EZ)</b> Electro-galvanized after manufacturing	Galvanized steel. Coating thickness 5-8 µm	<b>C1, C2</b>	EN ISO 2081	Electro-galvanizing refers to covering the product with a layer of zinc, using electricity. Electroplating is made in an electrolyte bath, after several cleaning and treatment stages.
<b>PG</b> Pre-galvanized steel	Galvanized steel. Coating thickness approximately 20 µm	<b>C1, C2</b>	EN 10346	Pre-galvanized steel products are made of zinc-coated steel bands. These products are also referred to as sendzimir galvanized products.
<b>HDG</b> Hot-dip galvanized after manufacturing	Galvanized steel. Coating thickness approximately 55 µm	<b>C3, C4</b>	EN ISO 1461	Hot-dip galvanized products are made of steel and finished product, such as a whole cable ladder or a part of it, is pre-treated and dipped in molten zinc. These are also referred to as hot-dip zinc coated products. The zinc coating covers the entire product, including cutting edges and weld seams.
<b>SS316</b> Acid-proof stainless steel, AISI 316L	Acid-proof steel AISI 316L	<b>C4, C5</b>	-	Products made of acid-proof stainless steel are used in highly corrosive environments, where hot-dip galvanizing does not provide sufficient corrosion protection.
<b>M</b> Painted steel	Painted steel. Standard colour white RAL 9010	<b>C1, C2</b>	-	Paint-coated steel products are made of pre-galvanized, painted steel band. The surface is covered with polyester paint, which has high resistance against weather, corrosion, and wear.
<b>PURAL</b> Painted steel	Pural coated steel Standard colour grey RAL 7045	<b>C3, C4</b>	-	Chemical consistency of Pural coating is optimized to tolerate weather conditions. Pural coating has high resistance against corrosion and UV radiation.

CORROSION CATEGORY				
Corrosion category	Usage outdoors	Usage indoors	Required surface treatment	Thickness reduction
<b>C1</b> Very low 	Not for outdoor use.	Heated buildings with a clean atmosphere, such as offices, schools and hotels.	<b>EG (EZ), PG, M</b>	0,0 µm - 0,1 µm in a year
<b>C2</b> Low 	Atmospheres with low contamination levels. Mostly rural areas.	Unheated buildings with possible condensation, such as warehouses and sports halls.	<b>EG (EZ), PG, M</b>	0,1 µm - 0,7 µm in a year
<b>C3</b> Medium 	Urban and industrial atmosphere with medium sulphur dioxide levels. Coastal areas with low salinity levels.	Production premises with high humidity levels and some impurities in the air, such as food industry facilities.	<b>HDG, PURAL</b>	0,7 µm - 2,1 µm in a year
<b>C4</b> High 	Industrial areas and coastal areas with medium salinity levels.	Chemical industry production plants, coastal shipyards and boatyards.	<b>HDG, PURAL</b>	2,1 µm - 4,2 µm in a year
<b>C5-I, C5-M</b> Very high (industrial) 	Industrial areas with high humidity levels and a corrosive atmosphere. Coastal and other areas with high salinity levels.	Buildings or areas with almost constant condensation and high contamination levels.	<b>SS316</b>	4,2 µm - 8,4 µm in a year

RECOMMENDED PRODUCTS		
C1 - C2	C3 - C4	C5-I, C5-M
Pre-galvanized PG and electro-galvanized EG products <ul style="list-style-type: none"> <li>Cable ladders</li> <li>Cable trays</li> <li>Wire mesh trays</li> <li>Lighting tracks</li> </ul>	Hot-dip zinc coated HDG and Pural painted products <ul style="list-style-type: none"> <li>Cable ladders</li> <li>Wire mesh trays</li> <li>Lighting tracks</li> </ul>	Acid-proof SS316 products <ul style="list-style-type: none"> <li>Cable ladders</li> <li>Wire mesh trays</li> <li>Lighting tracks</li> </ul>

# EARTHING AND EQUIPOTENTIAL BONDING

Main equipotential bonding must be carried out in each building. The purpose of main equipotential bonding is to prevent the occurrence of dangerous voltage differences between conductive parts that may be touched at the same time.

In equipotential bonding, exposed conductive parts and other conductive parts are connected to the same potential, to eliminate potential differences between them.

Parts connected to the main equipotential bonding usually include the building's metal pipelines (HVAC), metal constructions, and, where applicable, the main reinforcing steels used in concrete constructions.

Metal cable support systems can also be regarded as structures to be included in the equipotential bonding.

## Protective earthing/equipotential bonding

Cable ladders, cable trays and lighting tracks can be regarded as exposed conductive parts, which means that they must be connected to the building's main equipotential bonding rail at least at one point.

In industrial installations in particular, special attention must be paid to the earthing and reliability of the entire cable ladder system.

In industrial applications, it is recommended that the cable ladder be connected to earth at an interval of 40 m, for example, unless it is reliably connected to a conductive structure (e.g. an earthed steel column).

Extension piece SSR, which is used with cable ladder types KS20 and KS80, provides sufficient electrical connection, so a separate grounding conductor need not be installed across the ladder extension.

Electrical conductivity (cable ladders)	
Product	Impedance mΩ/m
KS20 PG	0,60
KS80 HDG	0,44
KS80 SS316	2,48
KSF80 HDG	0,44

Product + extension	
Product + extension	Impedance mΩ/m
KS20-300 PG + NL PG	0,24
KS20-300 PG + SSR PG	0,13
KS20-300 PG + SSC PG	0,24
KS80-300 HDG + NL HDG	0,39
KS80-300 HDG + NL-TK HDG	0,26
KS80-300 HDG + SSR HDG	0,17
KS80-300 HDG + SSU HDG	0,14
SS316 KS80 + SS316 SSU	0,66
KSF80-300 HDG + M10 pultit	0,16
KSF80-300 HDG + KSF-NL HDG	0,30
Measured at 50 mm from the extension.	

### Coupling plate DPA

Code	Product
1449685	DPA PG

### Bottom plate PPU

Code	Product
1432887	PPU-200 L=3000 PG
1432888	PPU-300 L=3000 PG
1432889	PPU-400 L=3000 PG
1432890	PPU-500 L=3000 PG
1432891	PPU-600 L=3000 PG

### Ceiling bracket RTF-10

Code	Product
1449484	RTF-10 PG

### Extension piece SSR

Code	Product
1449482	SSR PG

### Bracket KK

Code	Product
1449486	KK PG

### Cable ladder KS20

Code	Product
1449502	KS20-200 L=6000 PG
1449503	KS20-300 L=6000 PG
1449504	KS20-400 L=6000 PG
1449505	KS20-500 L=6000 PG
1449506	KS20-600 L=6000 PG

### Gate support PRT

Code	Product
1449970	PRT-200 PG
1449971	PRT-300 PG
1449972	PRT-400 PG
1449973	PRT-500 PG
1449974	PRT-600 PG

### Low voltage chute SR

Code	Product
1449701	SR-50 L=2000 PG
1449702	SR-100 L=2000 PG
1449703	SR-150 L=2000 PG

### Threaded rod GT-10

Code	Product
1449650	GT-10 L=2000 EG

### Elbow joint NL

Code	Product
1449480	NL PG

### Cover clip KAP

Code	Product
1449700	KAP PG

### Wall bracket VK2

Code	Product
1449479	VK2 PG

### Protective cover KRL-KS

Code	Product
1432847	KRL-KS-200 L=3000 PG
1432848	KRL-KS-300 L=3000 PG
1432849	KRL-KS-400 L=3000 PG
1432850	KRL-KS-500 L=3000 PG
1432851	KRL-KS-600 L=3000 PG

### End bracket ÄF

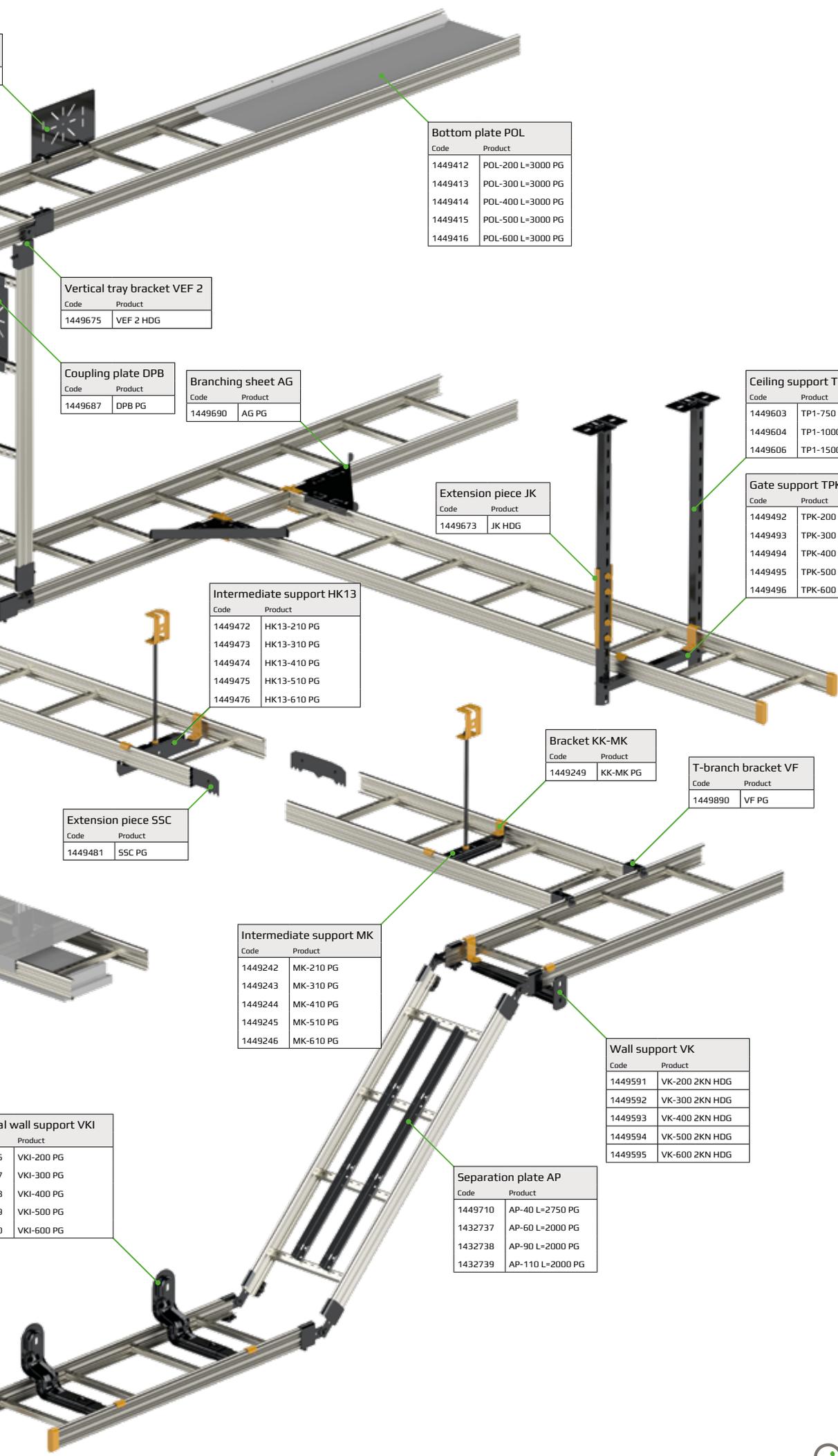
Code	Product
1449679	ÄF HDG

### Protective cap ÄP

Code	Product
1449681	ÄP

### Intern

Code	Product
1449436	
1449437	
1449438	
1449439	
1449440	



**Bottom plate POL**

Code	Product
1449412	POL-200 L=3000 PG
1449413	POL-300 L=3000 PG
1449414	POL-400 L=3000 PG
1449415	POL-500 L=3000 PG
1449416	POL-600 L=3000 PG

**Vertical tray bracket VEF 2**

Code	Product
1449675	VEF 2 HDG

**Coupling plate DPB**

Code	Product
1449687	DPB PG

**Branching sheet AG**

Code	Product
1449690	AG PG

**Extension piece JK**

Code	Product
1449673	JK HDG

**Ceiling support TP1**

Code	Product
1449603	TP1-750 HDG
1449604	TP1-1000 HDG
1449606	TP1-1500 HDG

**Gate support TPK**

Code	Product
1449492	TPK-200 HDG
1449493	TPK-300 HDG
1449494	TPK-400 HDG
1449495	TPK-500 HDG
1449496	TPK-600 HDG

**Intermediate support HK13**

Code	Product
1449472	HK13-210 PG
1449473	HK13-310 PG
1449474	HK13-410 PG
1449475	HK13-510 PG
1449476	HK13-610 PG

**Bracket KK-MK**

Code	Product
1449249	KK-MK PG

**T-branch bracket VF**

Code	Product
1449890	VF PG

**Extension piece SSC**

Code	Product
1449481	SSC PG

**Intermediate support MK**

Code	Product
1449242	MK-210 PG
1449243	MK-310 PG
1449244	MK-410 PG
1449245	MK-510 PG
1449246	MK-610 PG

**Wall support VK**

Code	Product
1449591	VK-200 2KN HDG
1449592	VK-300 2KN HDG
1449593	VK-400 2KN HDG
1449594	VK-500 2KN HDG
1449595	VK-600 2KN HDG

**Wall support VKI**

Code	Product
1449596	VKI-200 PG
1449597	VKI-300 PG
1449598	VKI-400 PG
1449599	VKI-500 PG
1449600	VKI-600 PG

**Separation plate AP**

Code	Product
1449710	AP-40 L=2750 PG
1432737	AP-60 L=2000 PG
1432738	AP-90 L=2000 PG
1432739	AP-110 L=2000 PG

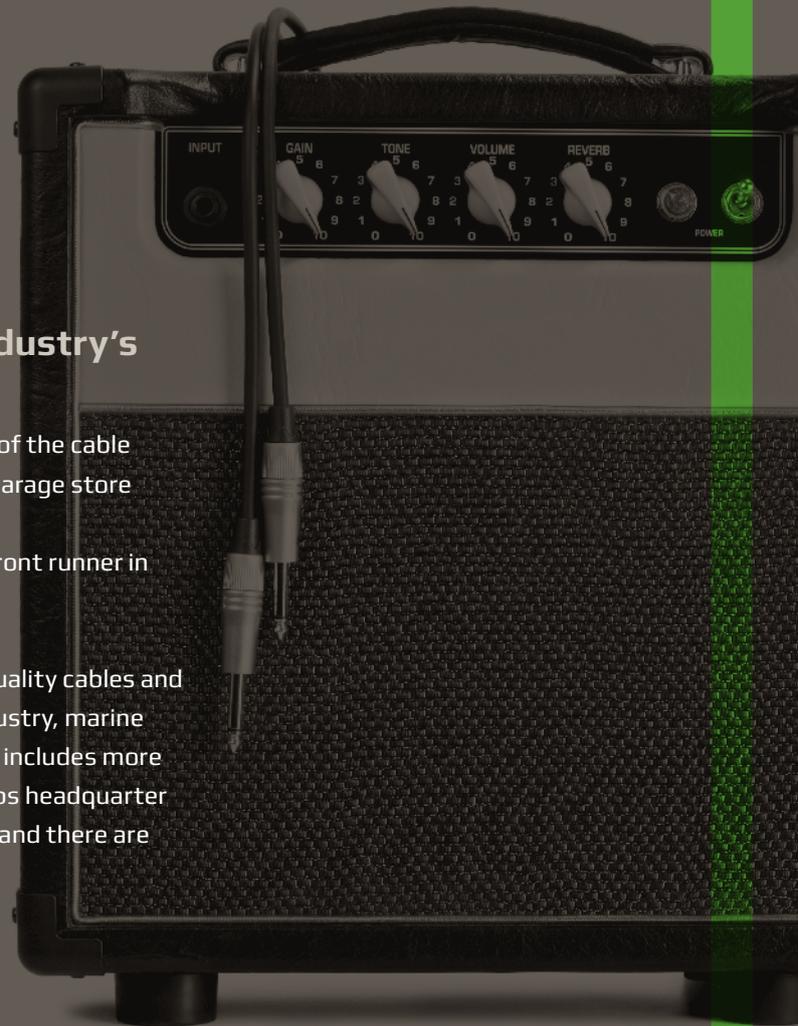


## Scankab set out as the cable industry's answer to "garage rock"

From the outset in 1992, Scankab was the rebel of the cable industry. The business sold cables from a small garage store room and challenged the cable market.

Most recently, Scankab has made its mark as a front runner in fireproof cables (CPR).

Scankab develops, manufactures and supplies quality cables and cable management to electrical contractors, industry, marine & offshore, infrastructure and energy. The range includes more than 3,500 types of cables held in stock. Scankab's headquarter is based in Denmark in the western part of Funen and there are subsidiaries in Norway and Sweden.



**We believe in direct communication**

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