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CABLE LADDERS FOR THE INDUSTRY - KS80

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	
EG (EZ) Electro-galvanized after manufacturing	Galvanized steel. Coating thickness 5-8 µm	**C1, C2**	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.
PG Pre-galvanized steel	Galvanized steel. Coating thickness approximately 20 µm	**C1, C2**	EN 10346	Pre-galvanized steel products are made of zinc-coated steel bands. These products are also referred to as sendzimir galvanized products.
HDG Hot-dip galvanized after manufacturing	Galvanized steel. Coating thickness approximately 55 µm	**C3, C4**	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.
SS316 Acid-proof stainless steel, AISI 316L	Acid-proof steel AISI 316L	**C4, C5**	-	Products made of acid-proof stainless steel are used in highly corrosive environments, where hot-dip galvanizing does not provide sufficient corrosion protection.
M Painted steel	Painted steel. Standard colour white RAL 9010	**C1, C2**	-	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.
PURAL Painted steel	Pural coated steel Standard colour grey RAL 7045	**C3, C4**	-	Chemical consistency of Pural coating is optimized to tolerate weather conditions. Pural coating has igh resistance against corrosion and UV radiotaion.

CORROSION CATEGORY				
Corrosion category	Usage outdoors	Usage indoors	Required surface treatment	Thickness reduction
C1 Very low	Not for outdoor use.	Heated buildings with a clean atmosphere, such as offices, schools and hotels.	**EG (EZ), PG, M**	0,0 µm - 0,1 µm in a year
C2 Low	Atmospheres with low contamination levels. Mostly rural areas.	Unheated buildings with possible condensation, such as warehouses and sports halls.	**EG (EZ), PG, M**	0,1 µm - 0,7 µm in a year
C3 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.	**HDG, PURAL**	0,7 µm - 2,1 µm in a year
C4 High	Industrial areas and coastal areas with medium salinity levels.	Chemical industry production plants, coastal shipyards and boatyards.	**HDG, PURAL**	2,1 µm - 4,2 µm in a year
C5-I, C5-M 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.	**SS316**	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 • Cable ladders • Cable trays • Wire mesh trays • Lighting tracks	Hot-dip zinc coated HDG and Pural painted products • Cable ladders • Wire mesh trays • Lighting tracks	Acid-proof SS316 products • Cable ladders • Wire mesh trays • Lighting tracks

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	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.	

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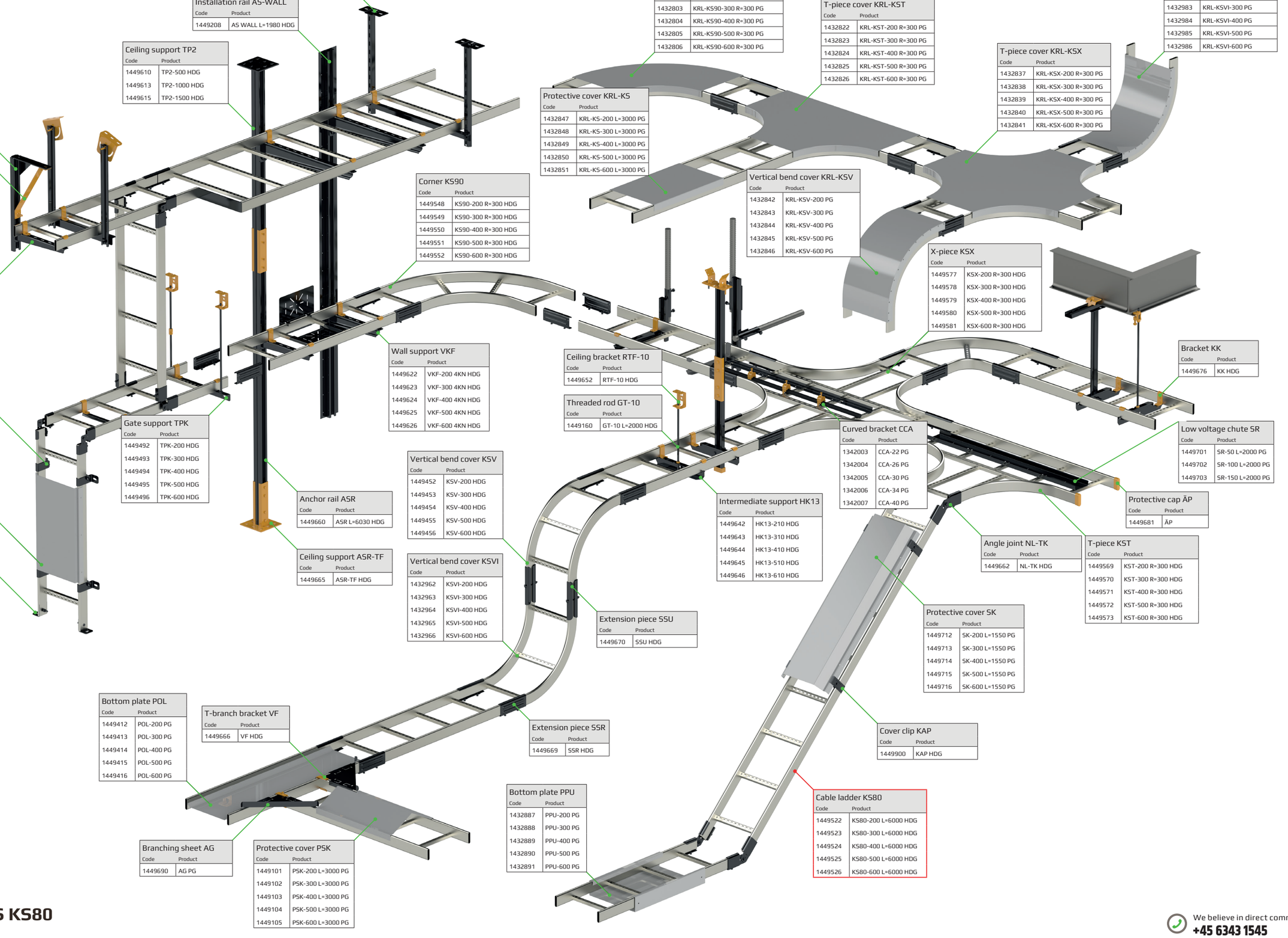

Ceiling support TP1	
Code	Product
1449602	TP1-500 HDG
1449604	TP1-1000 HDG
1449606	TP1-1500 HDG

Installation rail AS-WALL	
Code	Product
1449208	AS WALL L=1980 HDG

Ceiling support TP2	
Code	Product
1449610	TP2-500 HDG
1449613	TP2-1000 HDG
1449615	TP2-1500 HDG

Ceiling support HK2	
Code	Product
1449633	HK2-300 HDG
1449635	HK2-500 HDG
1449637	HK2-750 HDG
1449640	HK2-1000 HDG

Side support ST	
Code	Product
1449150	ST-300 HDG
1449151	ST-500 HDG
1449152	ST-800 HDG
1449153	ST-1500 HDG

Curved protective cover KRL-KS90	
Code	Product
1432802	KRL-KS90-200 R=300 PG
1432803	KRL-KS90-300 R=300 PG
1432804	KRL-KS90-400 R=300 PG
1432805	KRL-KS90-500 R=300 PG
1432806	KRL-KS90-600 R=300 PG

T-piece cover KRL-KST	
Code	Product
1432822	KRL-KST-200 R=300 PG
1432823	KRL-KST-300 R=300 PG
1432824	KRL-KST-400 R=300 PG
1432825	KRL-KST-500 R=300 PG
1432826	KRL-KST-600 R=300 PG

Vertical bend cover KRL-KSVI	
Code	Product
1432982	KRL-KSVI-200 PG
1432983	KRL-KSVI-300 PG
1432984	KRL-KSVI-400 PG
1432985	KRL-KSVI-500 PG
1432986	KRL-KSVI-600 PG

T-piece cover KRL-KSX	
Code	Product
1432837	KRL-KSX-200 R=300 PG
1432838	KRL-KSX-300 R=300 PG
1432839	KRL-KSX-400 R=300 PG
1432840	KRL-KSX-500 R=300 PG
1432841	KRL-KSX-600 R=300 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

Vertical bend cover KRL-KSV	
Code	Product
1432842	KRL-KSV-200 PG
1432843	KRL-KSV-300 PG
1432844	KRL-KSV-400 PG
1432845	KRL-KSV-500 PG
1432846	KRL-KSV-600 PG

Corner KS90	
Code	Product
1449548	KS90-200 R=300 HDG
1449549	KS90-300 R=300 HDG
1449550	KS90-400 R=300 HDG
1449551	KS90-500 R=300 HDG
1449552	KS90-600 R=300 HDG

X-piece KSX	
Code	Product
1449577	KSX-200 R=300 HDG
1449578	KSX-300 R=300 HDG
1449579	KSX-400 R=300 HDG
1449580	KSX-500 R=300 HDG
1449581	KSX-600 R=300 HDG

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 VKF	
Code	Product
1449622	VKF-200 4KN HDG
1449623	VKF-300 4KN HDG
1449624	VKF-400 4KN HDG
1449625	VKF-500 4KN HDG
1449626	VKF-600 4KN HDG

Ceiling bracket RTF-10	
Code	Product
1449652	RTF-10 HDG

Threaded rod GT-10	
Code	Product
1449160	GT-10 L=2000 HDG

Bracket KK	
Code	Product
1449676	KK HDG

Wall support VK2	
Code	Product
1449671	VK2 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

Curved bracket CCA	
Code	Product
1342003	CCA-22 PG
1342004	CCA-26 PG
1342005	CCA-30 PG
1342006	CCA-34 PG
1342007	CCA-40 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

Coupling plate KL	
Code	Product
1449202	KL-200 PG
1449203	KL-300 PG
1449204	KL-400 PG
1449205	KL-500 PG
1449206	KL-600 PG

Anchor rail ASR	
Code	Product
1449660	ASR L=6030 HDG

Vertical bend cover KSV	
Code	Product
1449452	KSV-200 HDG
1449453	KSV-300 HDG
1449454	KSV-400 HDG
1449455	KSV-500 HDG
1449456	KSV-600 HDG

Intermediate support HK13	
Code	Product
1449642	HK13-210 HDG
1449643	HK13-310 HDG
1449644	HK13-410 HDG
1449645	HK13-510 HDG
1449646	HK13-610 HDG

Protective cap ÄP	
Code	Product
1449681	ÄP

End bracket ÄF	
Code	Product
1449679	ÄF HDG

Ceiling support ASR-TF	
Code	Product
1449665	ASR-TF HDG

Vertical bend cover KSVI	
Code	Product
1432962	KSVI-200 HDG
1432963	KSVI-300 HDG
1432964	KSVI-400 HDG
1432965	KSVI-500 HDG
1432966	KSVI-600 HDG

Angle joint NL-TK	
Code	Product
1449662	NL-TK HDG

T-piece KST	
Code	Product
1449569	KST-200 R=300 HDG
1449570	KST-300 R=300 HDG
1449571	KST-400 R=300 HDG
1449572	KST-500 R=300 HDG
1449573	KST-600 R=300 HDG

Extension piece SSU	
Code	Product
1449670	SSU HDG

Protective cover SK	
Code	Product
1449712	SK-200 L=1550 PG
1449713	SK-300 L=1550 PG
1449714	SK-400 L=1550 PG
1449715	SK-500 L=1550 PG
1449716	SK-600 L=1550 PG

Bottom plate POL	
Code	Product
1449412	POL-200 PG
1449413	POL-300 PG
1449414	POL-400 PG
1449415	POL-500 PG
1449416	POL-600 PG

T-branch bracket VF	
Code	Product
1449666	VF HDG

Extension piece SSR	
Code	Product
1449669	SSR HDG

Cover clip KAP	
Code	Product
1449900	KAP HDG

Bottom plate PPU	
Code	Product
1432887	PPU-200 PG
1432888	PPU-300 PG
1432889	PPU-400 PG
1432890	PPU-500 PG
1432891	PPU-600 PG

Cable ladder KS80	
Code	Product
1449522	KS80-200 L=6000 HDG
1449523	KS80-300 L=6000 HDG
1449524	KS80-400 L=6000 HDG
1449525	KS80-500 L=6000 HDG
1449526	KS80-600 L=6000 HDG

Branching sheet AG	
Code	Product
1449690	AG PG

Protective cover PSK	
Code	Product
1449101	PSK-200 L=3000 PG
1449102	PSK-300 L=3000 PG
1449103	PSK-400 L=3000 PG
1449104	PSK-500 L=3000 PG
1449105	PSK-600 L=3000 PG

CABLE LADDERS KS80
FOR THE INDUSTRY

We believe in direct communication
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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. Scankabs headquarter is based i Denmark in the western part of Funen and there are subsidiaries in Norway and Sweden.

We believe in direct communication

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