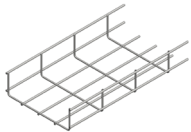


Datasheet **ValkCableCare** cable support systems

Cable support range

Van der Valk Solar Systems offers a range of different cable support systems including:

- Cable baskets and accessories
- Cable trays and accessories
- Cable ladders and accessories

Cable baskets	Cable trays	Cable ladders
		

Material

ValkCableCare cable support systems are manufactured using coated steel wires and plating, with zinc-aluminium and zinc-magnesium.

The material choice offers excellent corrosion resistance in outdoor and corrosion-prone locations. The finish offers a smoother surface and is more ecological compared to hot-dip galvanized alternatives.

Products offer cut edge protection (self-healing properties), saving on post treatment of products and prevent formation of rust.

Corrosion resistance

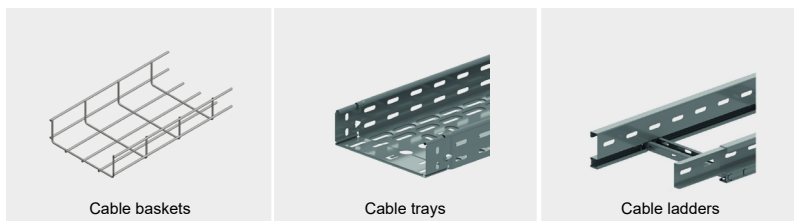
The surface treatment for our cable support systems provide a corrosion resistance as tested by ISO9227 accelerated salt spray test that meets or exceeds the corrosion resistance of hot-dip galvanized coatings (as per ISO1461). Products meet or exceed the requirements for C4 environment classes (as per EN9223 and ISO 14713-1) and are applicable for outdoor environments.

Electrical bonding

Cable support systems are coupled with strong couplings (click-on, screwed or integrated couplings) and have been tested and meet the requirements for electrical bonding of metal parts, as per § 11.1.2 of the IEC 61537.

Filling rate

Per EN50618 Table 3, a 6mm² solar cable in open air can carry a maximum current of 70A. The temperature rises with the increase in the number of bundled cables. Table 52.B.17 states that the maximum number of cables in a single bundle is 20 circuits; exceeding this number is not recommended as it falls outside the NEN1010 guidelines.



Datasheet **ValkCableCare** cable support systems

Load diagram

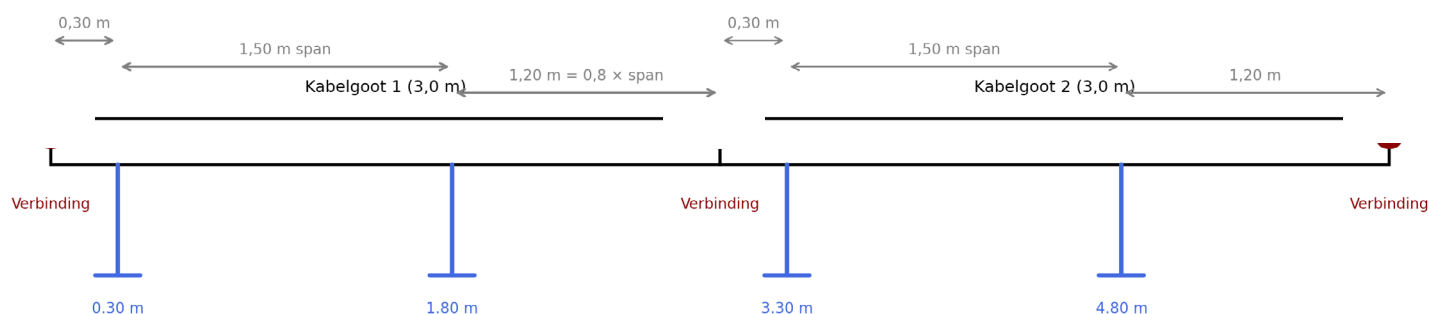
Each cable support system must conform to the therefore established load diagrams that have been carefully setup according to testing. This determines the permissible uniformly distributed loads in combination with supports conform the IEC 61537.

The diagrams for each cable support system can be found and consulted in the relevant chapter in this document.

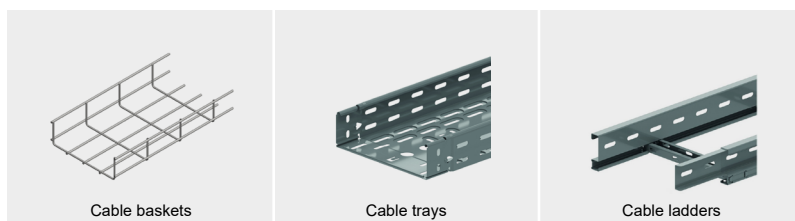
Safe configurations of cable support systems are important when assessing load diagrams and installation of products. Oblige to this key installation rule when installing the cable support system:

- The first support must be positioned at a distance of 1/5 of the support span from the nearest joint.
- The end span (overhang beyond the last support must not exceed $0,8 \times$ support span.
- If a joint is located at the centre of the span, the permissible load must be reduced to $0,7 \times$ the specified load capacity.

[View the EPD](#)



Example with a span of 1,5 meters.



Datasheet **ValkCableCare** cable support systems

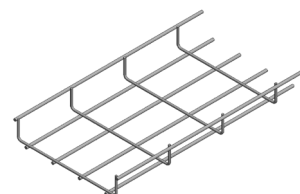
Cable baskets (h=35 mm)

The cable baskets from ValkCableCare are a lightweight yet durable solution for cable management of solar installations and electrical appliances.

Available in heights of 35 mm and 60 mm.

Grid: 50 x 100 mm

More article information can be found in our [catalogue](#).



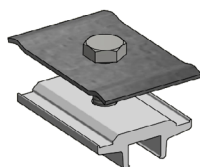
Art. nr.	Description	H [mm]	W [mm]	L [mm]	KG per M.
76010100353000	Zinc-alu cable basket w=100 h=35 L=3000mm	35	100	3000	0,570
76010150353000	Zinc-alu cable basket w=150 h=35 L=3000mm	35	150	3000	0,830
76010200353000	Zinc-alu cable basket w=200 h=35 L=3000mm	35	200	3000	0,870
76010250353000	Zinc-alu cable basket w=250 h=35 L=3000mm	35	250	3000	1,030
76010350353000	Zinc-alu cable basket w=350 h=35 L=3000mm	35	350	3000	1,330

Accessoires

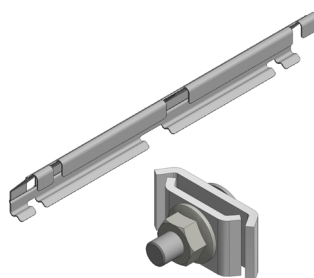
We offer various accessories for coupling, covers and mounting material for multiple roof types and PV-systems.



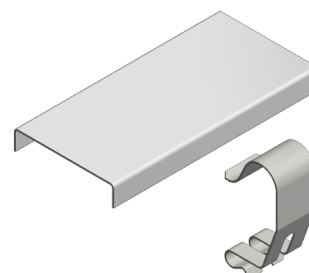
Mounting brackets



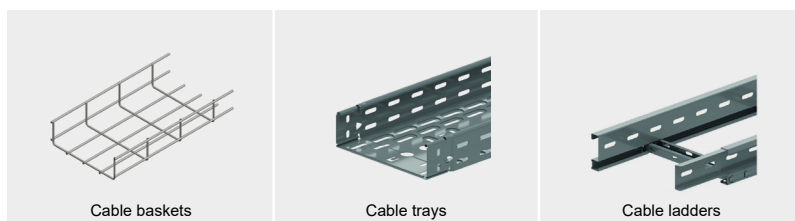
Mounting clamps



Couplings

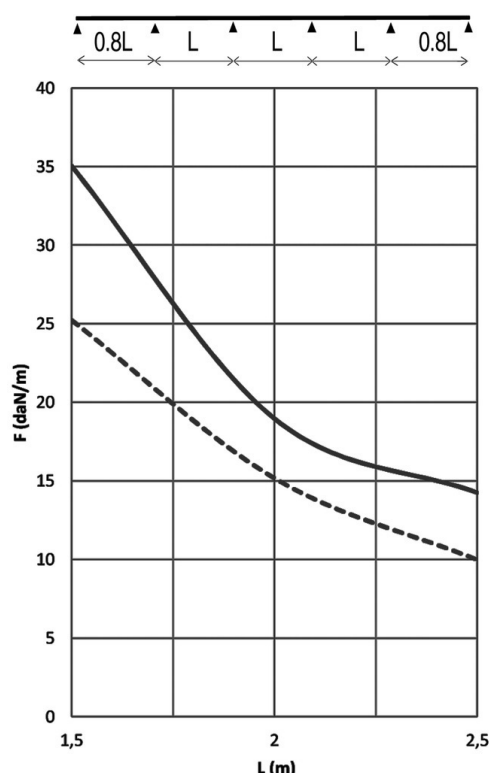


Covers



Datasheet **ValkCableCare** cable support systems

Load diagram



— Width 250 mm – 350 mm
- - - Width 100 mm – 200 mm

F = max. admissible load (daN/m)

L = support distance (m)

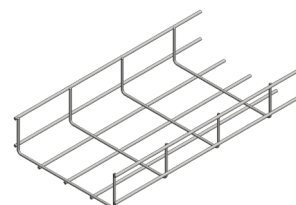
Max. deflection (m) = L/100

This diagram illustrates the permissible uniformly distributed loads applied to multiple supports. They comply with IEC 61537 with connection to 1/5 of the span and the end span = 0,8x the span. When the joint is situated in the centre of the span, a reduction of 0,7x the admissible load is to be taken into account.

Cable baskets (h=60 mm)

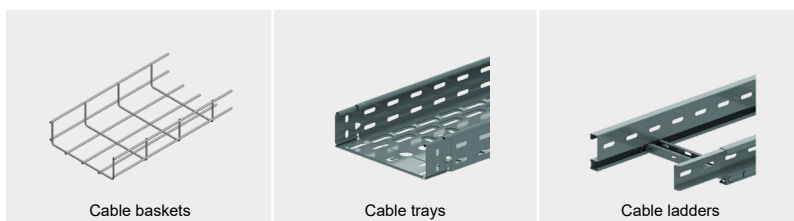
The cable baskets from ValkCableCare are a lightweight yet durable solution for cable management of solar installations and electrical appliances.

Available in heights of 35 mm and 60 mm.
Grid: 50 x 100 mm



More article information can be found in our [catalogue](#).

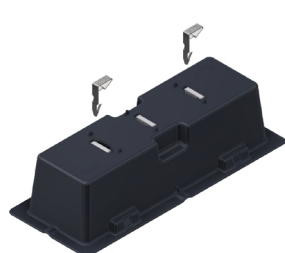
Art. nr.	Description	H [mm]	W [mm]	L [mm]	KG per M.
76010050603000	Zinc-alu cable basket w=50 h=60 L=3000mm	60	50	3000	0,570
76010100603000	Zinc-alu cable basket w=100 h=60 L=3000mm	60	100	3000	0,830
76010150603000	Zinc-alu cable basket w=150 h=60 L=3000mm	60	150	3000	0,870
76010200603000	Zinc-alu cable basket w=200 h=60 L=3000mm	60	200	3000	1,030
76010300603000	Zinc-alu cable basket w=300 h=60 L=3000mm	60	300	3000	1,330
76010400603000	Zinc-alu cable basket w=400 h=60 L=3000mm	60	400	3000	2,120
76010500603000	Zinc-alu cable basket w=500 h=60 L=3000mm	60	500	3000	2,470



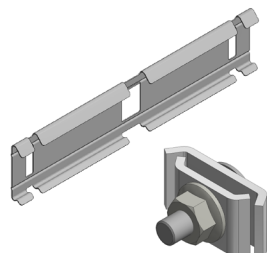
Datasheet **ValkCableCare** cable support systems

Accessoires

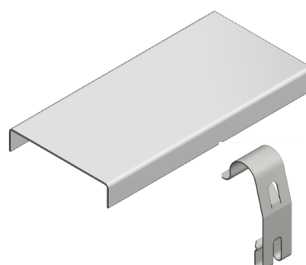
We offer various accessories for coupling, covers and mounting material for multiple roof types and PV-systems.



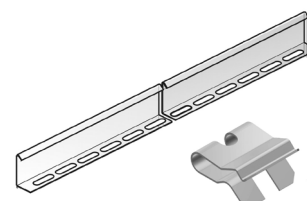
Support blocks



Couplings

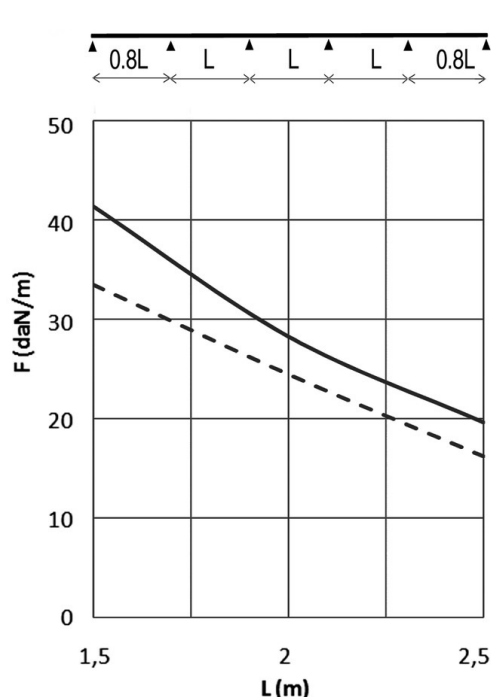


Covers



Divider profiles

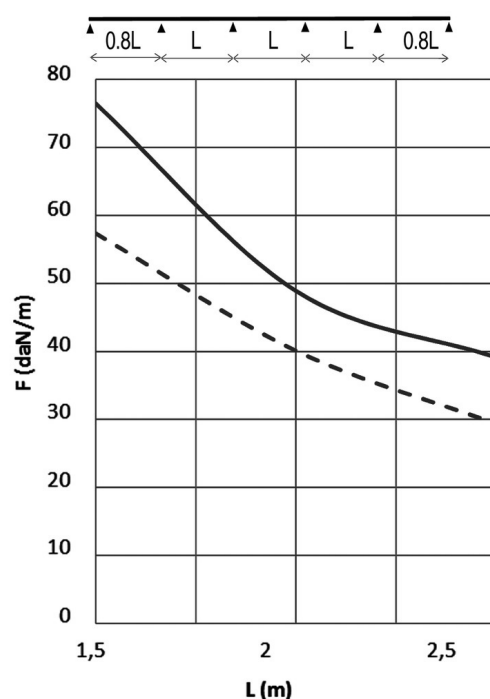
Load diagram

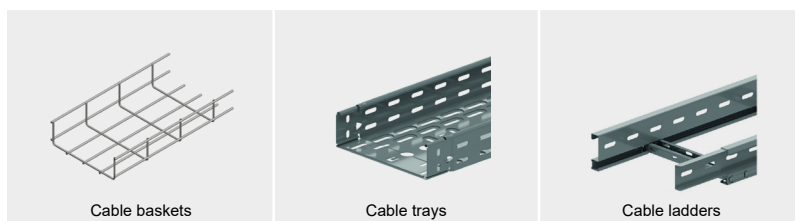


Width 400 mm – 500 mm

F = max. admissible load (daN/m)
 L = support distance (m)
Max. deflection (m) = $L/100$

This diagram illustrates the permissible uniformly distributed loads applied to multiple supports. They comply with IEC 61537 with connection to 1/5 of the span and the end span = 0,8x the span. When the joint is situated in the centre of the span, a reduction of 0,7x the admissible load is to be taken into account.





Datasheet **ValkCableCare** cable support systems

Cable trays (h=60 mm)

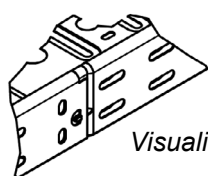
The cable trays from ValkCableCare are a strong solution for cable management of solar installations and electrical appliances. Our cable trays include an integrated joint, making assembly quick and easy.

Intricate perforations for:

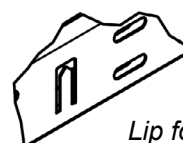
- Extra load-bearing capacity.
- Efficient cooling.
- Various opportunities for equipotential bonding.
- Better fixing to supports and cable bundling.



Art. nr.	Description	H [mm]	W [mm]	L [mm]	KG per M.
76040100603000	Zinc-mag cable tray w=100 h=60 L=3000 mm	60	100	3000	1,200
76040150603000	Zinc-mag cable tray w=150 h=60 L=3000 mm	60	150	3000	1,462
76040200603000	Zinc-mag cable tray w=200 h=60 L=3000 mm	60	200	3000	1,723
76040300603000	Zinc-mag cable tray w=300 h=60 L=3000 mm	60	300	3000	2,234
76040400603000	Zinc-mag cable tray w=400 h=60 L=3000 mm	60	400	3000	2,779
76040500603000	Zinc-mag cable tray w=500 h=60 L=3000 mm	60	500	3000	4,170



Visualisation of clickable ends.



Lip for earthing cable (ø11 mm)

Accessoires

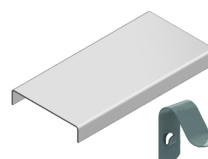
We offer various accessories for coupling, covers and mounting material for multiple roof types and PV-systems.



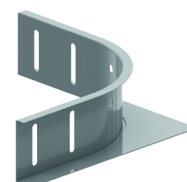
Support blocks



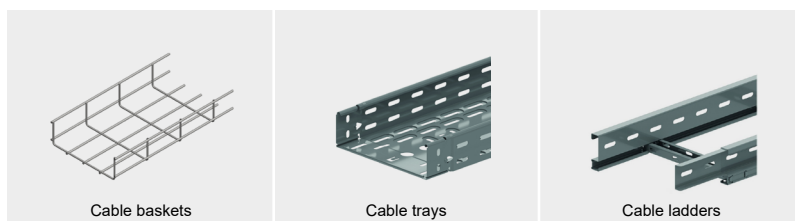
Mounting brackets



Covers

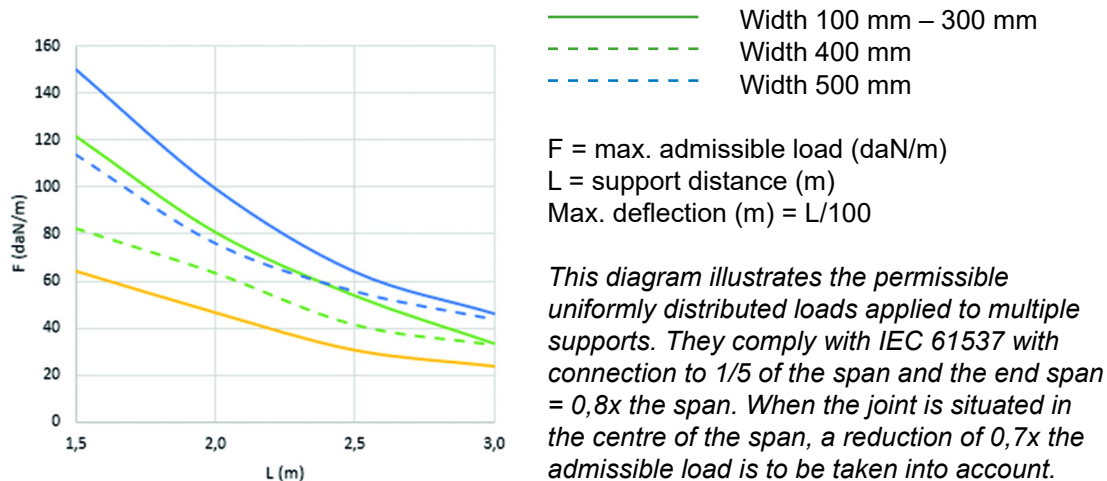


Corners



Datasheet **ValkCableCare** cable support systems

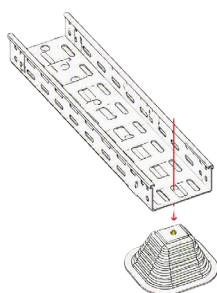
Load diagram



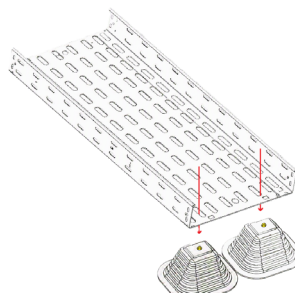
Support spacing

Cable trays are to be supported using our universal support blocks (art. 760219) and fixed with M6x10 mm bolts (773010). The width of the tray determines the quantity of supports that must be applied per support point. View the application table below for appropriate application of the support blocks.

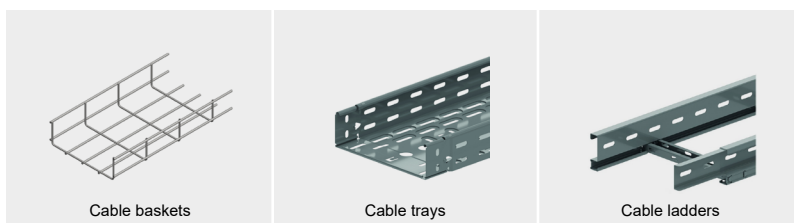
Tray dimension (mm)	100 x 60	150 x 60	200 x 60	300 x 60	400 x 60	500 x 60
Universal support block (760219)	1x	1x	2x	2x	2x	2x



Single support block



Double support block



Datasheet **ValkCableCare** cable support systems

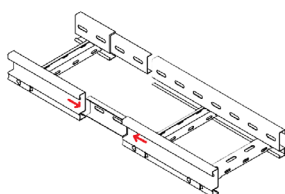
Cable ladders (h=60 mm) Cable ladders from ValkCableCare are lightweight yet durable cable support systems with special interlocking ends. The ladders are made using S-profiled walls, making smart use of material for strength.

Interlocking ends fixed with M6x10 mm bolts (773010) for fast assembly

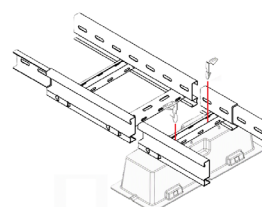
C-profile C.T.C. distance : 250 mm



Art. nr.	Description	H [mm]	W [mm]	L [mm]	KG per M.
76050300603000	Zinc-mag. Cable ladder w=300 h=60 L=3000mm	60	300	3000	2.319
76050400603000	Zinc-mag. Cable ladder w=400 h=60 L=3000mm	60	400	3000	2.553
76050300603000	Zinc-mag. Cable ladder w=500 h=60 L=3000mm	60	500	3000	2.787



Visualisation of interlocking ends.



Visualisation of mounting on support block.

Accessoires

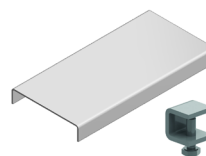
We offer various accessories for coupling, covers and mounting material for multiple roof types and PV-systems.



Support blocks



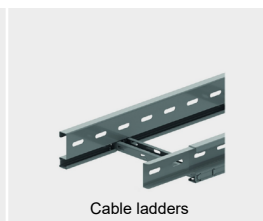
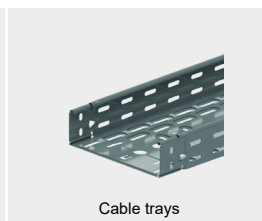
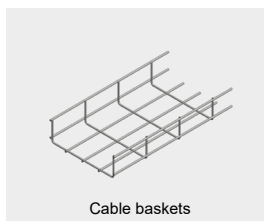
Mounting brackets



Covers

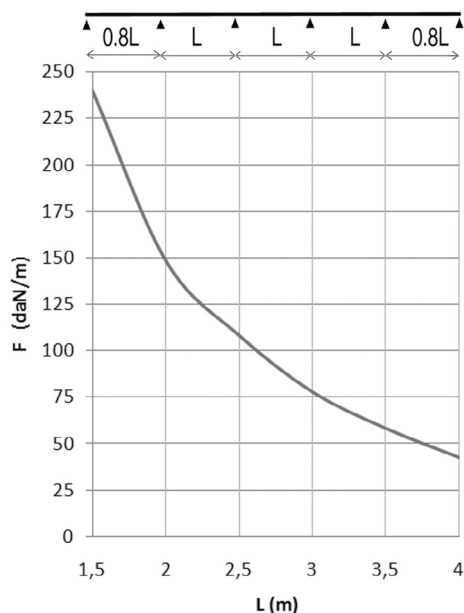


Bends



Datasheet **ValkCableCare** cable support systems

Load diagram



Width 300 mm – 500 mm

F = max. admissible load (daN/m)

L = support distance (m)

Max. deflection (m) = $L/100$

This diagram illustrates the permissible uniformly distributed horizontal loads applied to multiple supports. They comply with IEC 61537 with connection in the centre of the span and the end span = 0,8x the span.