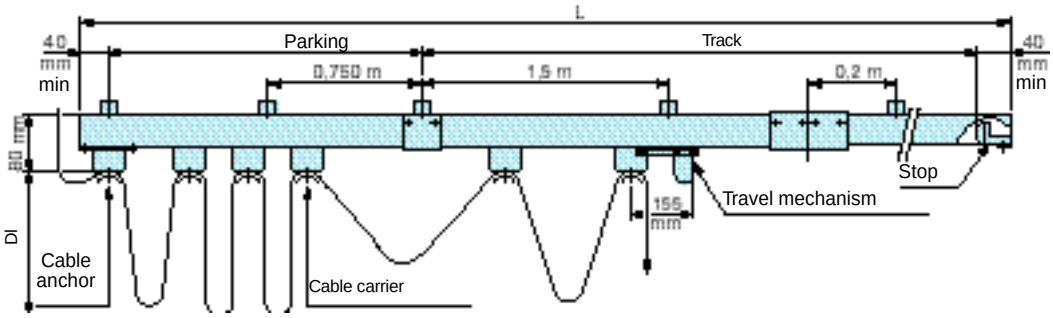
Mobile distribution

Canalis KXG mounting rail and cable carriers

Run components



Track run

p Determine the length of the run.
Length = parking (estimate) + displacement + 80 mm.
To increase safety, allow at least an additional 1 % of the length to avoid sudden stopping (outward journey) or packing (return journey).

p Determine the number of fixing brackets.
Place a fixing bracket at 1.5 m intervals along the track, and at 0.75 m intervals in the parking.

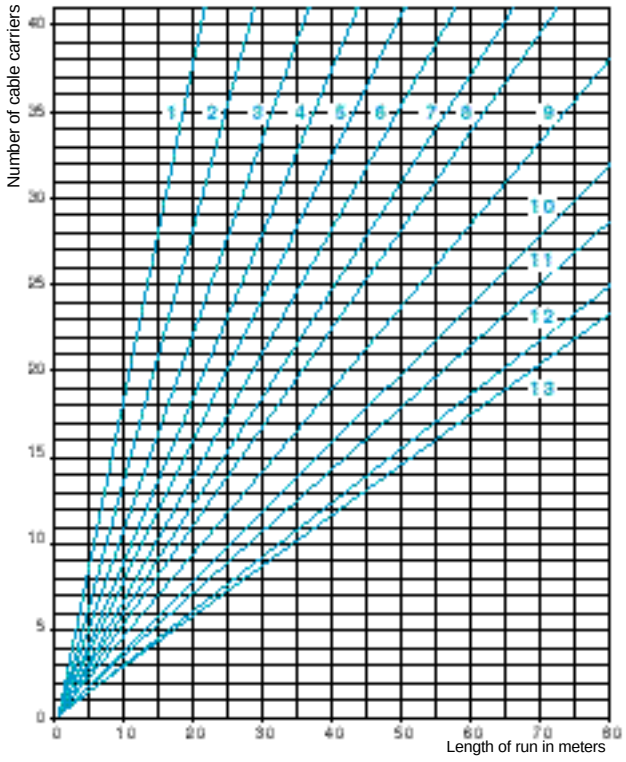
Number of cable carriers

The number of cable carriers varies according to the length of the run (L) and the possible depth of the loops (Dl).

p Select a loop length. The higher the speed of movement (maximum 60 m/min), the shorter the loop depth.

p Allow an additional 10 % cable length to avoid excessive tension when fully extended.

p Determine the number of cable carriers according to the diagram below.



Curve number	Depth of loop Dl m
1	0.3
2	0.4
3	0.5
4	0.6
5	0.7
6	0.8
7	0.9
8	1
9	1.2
10	1.4
11	1.6
12	1.8
13	2

Presentation : pages 11060/2 and 11060/3
Selection guide : pages 11061/2 and 11061/3
References : page 11064/3
Dimensions : pages 11064/4 and 11064/5

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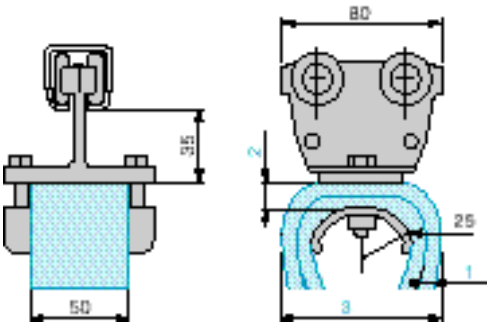
Cable carriers

Selection depends on :

p cable form : flat or round,

p type of rollers : plastic or ball bearings.

Carriers for flat flexible cables.



To avoid mechanical strain on the cable, respect the following limits :

1 maximum cable thickness : 8 mm,

2 maximum cable stack height : 15 mm,

3 maximum bend width : 80 mm.

Example : cable H07 VVF 2F (taken from cable catalogue).

Number of conductors	Maximum surface	External dimensions	Weight	Free air current	Curve radius
	mm^2	mm	kg/km	**A**	mm
4	1.5	17 x 5.8	138	16	40
	2.5	20.5 x 6.6	220	21	45
	4	23 x 7.6	295	28	55
	6	25 x 8.1	385	35	65
8	1.5	29.2 x 5.8	260	11	40
	2.5	35.3 x 6.6	410	14	45
12	1.5	42.6 x 5.8	375	9	40
	2.5	51.7 x 6.6	590	12	45

Carriers for round flexible cables.

These carriers are always oscillatory mounted to limit wear on cables.

Selecting diameter :

p Ø 10 to 28 mm for 1 or 2 cables,

p Ø 10 to 20 mm for 3 cables.

Rollers for cable carriers

From the table below, select the type of rollers according to the conditions of use.

Type of rollers	Normal use	Harsh and/or frequent use	Weight per carrier	Fine dust environment	Temperature of ice formation
			kg		
Plastic material	p	–	8	p	p
Ball bearings	–	p	15	–	–

Presentation : pages 11060/2 and 11060/3
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