

PLANNING GUIDE NORDIC ALUMINIUM 3-CIRCUIT TRACK



This planning guide is designed to give you a quick and easy overview of the various options in our track portfolio, identify the special features of the individual variants, and generate a compilation of the materials required for your individual 3-circuit track project.

Our extensive 3-circuit track programme enables the implementation of extremely flexible infrastructures for the power supply of durable, long-life lighting systems – while complying with legal regulations and standards.

The technical design of the 3-circuit track (surface-mounted + flanged) makes it possible to divide the lighting installation into three separately switchable groups: e.g. general, accent and decorative lighting.

In addition to the four individual copper conductors for the 3-circuit phases and the neutral conductor, the DALI version has two additional conductors integrated into the track for transmitting the control signal.

The electrical connection between the supply line and the track is made using feeds (XTS 11, XTS12 and XTS14), L-connectors (XTS34, XTS35), T-connectors (XTS36, XTS37, XTS39, XTS40) or X-connectors (XTS38). It is not possible to feed power into the joint connector or flex connector.

When planning, ensure that the neutral conductor (orange, wide line – see schematic diagrams from page 8) is connected continuously. On the connectors, the screw for mechanical fastening marks the position of the neutral conductor. It is always in the opposite position to the protective conductor.

3-circuit track can be extended almost indefinitely, taking into account the load distribution to the individual phases and the on-site fuse protection of the load circuits. The maximum load on a single phase is 16 amps. (Caution: observe the inrush currents of the luminaires) The individual track units are electrically connected, for example, using the longitudinal coupling (XTS21) or the familiar L, T or X connectors.

All track can be shortened on site using a hacksaw. All copper conductors must be bent over for fastening and contacting the electrical feeders, couplings and connectors as well as the mechanical connections (straight connector or end cap). (Please order bending tool separately)

The track is approved for use within arm's reach. Nevertheless, the use of plastic covers is recommended for low mounting heights and vertical wall or floor mounting. They offer protection against dust or the ingress of foreign bodies and can also be easily shortened on site.

For suspended mounting, use of the butt joint connector (XTS18) is also recommended for mechanical connection and reinforcement of the track.

Recessed track differs from surface-mounted track only by having 'flanges' on its sides. It is attached to an on-site substructure within the ceiling.

For further information, see the Oktalite product data sheet and the mounting instructions from the manufacturer Nordic Aluminium.

Mounting instructions are included with each delivery. Caution: in the Nordic Aluminium instructions, the illustrations on the following pages are mirrored. The reason for this is the different viewing direction of the observer (Oktalite = ceiling plan from above, Nordic Aluminium = ceiling plan from below).

BLACK TRACK

AutoCAD symbols	Designation	Quan- tity				Description	Weight	тос	TOC DALI
	— 3 m	1		٠	3P	Surface-mounted track 3 m	2.7 kg	5851700	7945000
	— 3 m EB	1		٠	3P	Recessed track 3 m	3.0 kg	5852600	7945900
	2 m	1		•	3P	Surface-mounted track 2 m	1.8 kg	5851600	7944900
	2 m EB	1		•	3P	Recessed track 2 m	2.0 kg	5852500	7945800
	1 m	1		٠	3P	Surface-mounted track 1 m	0.9 kg	5851500	7944800
	1 m EB	1		•	3P	Recessed track 1 m	1.0 kg	7942400	7945700
all a		1	() mar	•	3P	Bending tool XTSV12	0.1 kg	5859300	5859300
	Cover can be cut to suit	1	$\langle \rangle$	•	3P	Cover/contact guard 2m XTS P11	0.3 kg	9642800	
	XTS 11	1		•	3P	End feed XTS 11	0.2 kg	5855900	7946500
-1+	XTS 12	1		٠	3P	End feed XTS 12	0.2 kg	5856000	7946200
	XTS 14	1		•	3P	Centre feed XTS 14	0.2 kg	7942500	7946800
		1		•	3P	Cover for feeds / recessed	0.1 kg	7944100	
0×r	GA 70	1		•	3P	Spot outlet GA70	0.3 kg	5858600	
Θ		1	9.	•	3P	Installation box for spot outlet	0.2 kg	5858700	
ф 	XTS 21	1		•	3P	Straight connector XTS 21	0.1 kg	7942600	7947100
	SKB 18	1	Ŵ	•	3P	Butt joint connector SKB18	0.2 kg	5853500	
	XTS 24	1			3P	Joint connector XTS 24	0.2 kg	5856100	
C	XTS 34	1	~	•	3P	L-connector XTS 34	0.2 kg	5856500	7947700
ے ا	XTS 35	1	~	•	3P	L-connector XTS 35	0.2 kg	5856400	7947400
	XTS 36	1	2	•	3P	T-connector XTS 36	0.2 kg	5856600	7948900
ъ	XTS 37	1	3		3P	T-connector XTS 37	0.2 kg	5856700	7948000
÷	XTS 38	1	×	•	3P	X-connector XTS 38	0.3 kg	7942800	7949200
凸	XTS 39	1	2		3P	T-connector XTS 39	0.2 kg	5856900	7948600
Ϋ́	XTS 40	1	2		3P	T-connector XTS 40	0.2 kg	5857000	7948300
Ô		1	-	٠	3P	Cover for connector / recessed	0.1 kg	9656000	7949800
I	XTS 41	1	100	٠	3P	End cap XTS 41	0.1 kg	5856800	
×	SKB12	1		•	3P	Ceiling mounting bracket SKB 12	0.1 kg	5853600	
*	01/05	1	Y	٠	3P	Caddy clip, white/black	0.1 kg	8119000	
Caution: shorter distanc	es between the fixing points r	nust be o	bserved	acco	rding to	the ceiling load-bearing capacity.			
*	05/05	1	Ŵ	٠	3P	Caddy clip, black/black	0.1 kg	8119000	
Caution: shorter distanc	es between the fixing points r	nust be o	bserved	acco	rding to	the ceiling load-bearing capacity.			
\otimes	1.5 m	1	J.	0	3P	height-adjustable wire set 1.5 m	0.1 kg	7943000	
\otimes	3 m	1	K	0	3P	height-adjustable wire set 3.0 m	0.1 kg	7943100	
\otimes	6 m	1	J.	0	3P	height-adjustable wire set 6.0 m	0.1 kg	7943200	
\otimes	Sleeve	1	1	0	3P	Ceiling fixing for wire	0.1 kg	5973900	
\$	Stabiliser	1	$\langle \rangle$	0	3P	Track stabiliser	0.1 kg	5974000	
٥	Socket outlet	1		•	3P	Socket outlet for track	0.2 kg	5858300	
Maximum distance betw	een fixing points = 1.5 m Max	kimum to	tal weig	ht bet	ween tv	vo fixing points = 20 kg			

SILVER TRACK

3 m EB 1 0 3P Recessed track 3 m 3.0 kg 585 2 m 1 0 3P Surface-mounted track 2 m 1.8 kg 585 1 m 1 0 3P Recessed track 2 m 2.0 kg 585 1 m EB 1 0 3P Recessed track 1 m 0.0 kg 585 1 m EB 1 0 3P Recessed track 1 m 1.0 kg 74 1 m EB 1 0 3P Reding took XTSV12 0.1 kg 585 1 m EB 1 0 3P Endine took XTSV12 0.2 kg 585 1 m EB 1 0 3P Endine took XTSV12 0.2 kg 585 1 m EB 1 0 3P Cover for feed XTS 14 0.2 kg 585 1 m E 3P Cover for feed XTS 14 0.2 kg 597 71 0.1 kg 597 1 9P Straight connector XTS 21 0.1 kg 597 71 0.2 kg 595 1 9P Straight connector XTS 34 0.2 kg 585	TOC DAL	тос	Weight	Description				Quan- tity	Designation	AutoCAD symbols Desig
2m 1 3P Surface-mounted track 2m 1.8 kg 585 1m 1 3P Surface-mounted track 1m 0.9 kg 585 1m 1 3P Surface-mounted track 1m 0.9 kg 585 1m 1m 3P Surface-mounted track 1m 0.9 kg 585 1m 1m 3P Bending tool XTSV12 0.1 kg 585 XTS 11 1 3P End feed XTS 11 0.2 kg 585 XTS 12 1 3P End feed XTS 12 0.2 kg 585 XTS 14 1 3P Contre feed XTS 14 0.2 kg 585 XTS 14 1 3P Spot outlet GA70 0.3 kg 585 SKB 18 1 3P Spot outlet GA70 0.2 kg 585 SKB 18 1 3P Straight connector XTS 21 0.1 kg 585 SKB 18 1 3P Joint connector XTS 24 0.2 kg 585 SKB 18 1 3P L-connector XTS 24 0.2 kg 585 SKB 18 1 3P <td>2000 794470</td> <td>58</td> <td>2,7 kg</td> <td>Surface-mounted track 3 m</td> <td>• 3P</td> <td>•</td> <td></td> <td>1</td> <td>3 m</td> <td> 3 m</td>	2000 794470	58	2,7 kg	Surface-mounted track 3 m	• 3P	•		1	3 m	3 m
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Image: Note of the second se	4200	58	0,2 kg	Butt joint connector SKB18	• 3P	(Ŵ	1	5KB 18	SKB 1
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A XTS 36 1 Image: Construction of the construction	57600 794760	58	0,2 kg	L-connector XTS 34	• 3P	1		1	(TS 34	۶ XTS 3
□ XTS 37 1 Image: Constraint of the constra	7500 794730	58	0,2 kg	L-connector XTS 35	• 3P	1		1	(TS 35	ى XTS 3
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\square XTS 391 \checkmark \bigcirc \bigcirc \square	57800 794790	58	0,2 kg	T-connector XTS 37	• 3P	(>	1	(TS 37	고 XTS 31
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tXTS 411Image: Constraint of the car of the c	8000 794850	58	0,2 kg	T-connector XTS 39	• 3P	(>	1	(TS 39	조 XTS 31
XSKB121Image: Constraint of the constrai	58100 794820	58	0,2 kg	T-connector XTS 40	• 3P	(>	1	(TS 40	ਨਾ XTS 4
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Caution: shorter distances between the fixing points must be observed according to the ceiling load-bearing capacity. * 05/05 1 * 3P Caddy clip, silver/silver 0.0 kg 811 Caution: shorter distances between the fixing points must be observed according to the ceiling load-bearing capacity. \otimes 1.5 m 1 \swarrow \odot 3P height-adjustable wire set 1.5 m 0,1 kg 794 \otimes 3 m 1 \swarrow \odot 3P height-adjustable wire set 3.0 m 0,1 kg 794 \otimes 6 m 1 \checkmark \odot 3P height-adjustable wire set 6.0 m 0,1 kg 794 \otimes Sleeve 1 \Box \odot 3P ceiling fixing for wire 0,1 kg 794	4300	58	0,1 kg	Ceiling mounting bracket SKB 12	• 3P	(1	SKB12	× SKB12
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Caution: shorter distances between the fixing points must be observed according to the ceiling load-bearing capacity.				the ceiling load-bearing capacity.	according to	d a	observe	nust be o	ween the fixing points n	Caution: shorter distances between
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Sleeve 1 To a P Ceiling fixing for wire 0,1 kg 585	\$3100	1 79	0,1 kg	height-adjustable wire set 3.0 m	• 3P	(j.	1	3 m	8 3 m
	3200	1 79	0,1 kg	height-adjustable wire set 6.0 m	• 3P	(K	1	m	8 6 m
Stabiliser 1 📣 🗢 3P Track stabilisor 0,2 kg 597	59300	58	0,1 kg	Ceiling fixing for wire	● 3P	(1	Sleeve	Sleeve
	74000	1 59	0,2 kg	Track stabilisor	● 3P	(\Diamond	1	Stabiliser	Stabili Stabili
Socket outlet 1 Socket outlet 1 Socket outlet for track O,2 kg S85	8300	j 58	0,2 kg	Socket outlet for track	• 3P	•		1	Socket outlet	
Maximum distance between fixing points = 1.5 m Maximum total weight between two fixing points = 20 kg				vo fixing points = 20 kg	t between t	ght	otal weig	cimum to	king points = 1.5 m Max	Maximum distance between fixing p

WHITE TRACK

AutoCAD symbols	Designation	Quan- tity				Description	Weight	тос	TOC DALI
	3 m	49		0	3P	Surface-mounted track 3 m	2,7 kg	5851400	7944400
	— 3 m EB	1		0	3P	Recessed track 3 m	3,0 kg	5852400	7945300
	2 m	31		0	3P	Surface-mounted track 2 m	1,8 kg	5851300	7944300
	2 m EB	1		0	3P	Recessed track 2 m	2,0 kg	5852300	7945200
	1 m	1		0	3P	Surface-mounted track 1 m	0,9 kg	5851200	7944200
	1 m EB	1		0	3P	Recessed track 1 m	1,0 kg	7942200	7945100
Reference of the second		1	Cana a	0	3P	Bending tool XTSV12	0,1 kg	5859300	
	Cover can be cut to suit	1	\sim	0	3P	Cover/contact guard 3m XTS P11	0,3 kg	9642700	
	XTS 11	1		0	3P	End feed XTS 11	0,2 kg	5854700	7946300
-1-	XTS 12	1		0	3P	End feed XTS 12	0,2 kg	5854800	7946000
	XTS 14	1	W	0	3P	Centre feed XTS 14	0,2 kg	5974200	7946600
		1		0	3P	Cover for feeds / recessed	0,1 kg	7943900	7943900
€*-1~	GA 70	1		0	3P	Spot outlet GA70	0,3 kg	5858400	
0		1	9.	0	3P	Installation box for spot outlet	0,2 kg	7943300	
ф	XTS 21	5	C. T. T.	0	3P	Straight connector XTS 21	0,1 kg	5973500	7946900
—	SKB 18	1	Ŵ	0	3P	Butt joint connector SKB18	0,2 kg	5853000	
	XTS 24	1	-	0	3P	Joint connector XTS 24	0,2 kg	5854900	
P	XTS 34	22	1	0	3P	L-connector XTS 34	0,2 kg	5855300	7947500
Ъ	XTS 35	22		0	3P	L-connector XTS 35	0,2 kg	5855200	7947200
<u>گ</u>	XTS 36	6	Ar	0	3P	T-connector XTS 36	0,2 kg	7942700	7948700
T	XTS 37	6		0	3P	T-connector XTS 37	0,2 kg	5855500	7947800
÷	XTS 38	6	×	0	3P	X-connector XTS 38	0,3 kg	5855100	7949000
<u>گ</u>	XTS 39	6		0	3P	T-connector XTS 39	0,2 kg	5855700	7948400
T	XTS 40	6	-	0	3P	T-connector XTS 40	0,2 kg	5855800	7948100
¢		1	-	0	3P	Cover for connector / recessed	0,1 kg	9656100	7949600
I	XTS 41	1	and the second s	0	3P	End cap XTS 41	0,1 kg	5855600	
×	SKB12	1		0	3P	Ceiling mounting bracket SKB 12	0,1 kg	5853100	
*	01/01	1	ý	0	3P	Caddy clip, white/white	0,1 kg	8119100	
Caution: shorter distan	ces between the fixing points	must be	observed	acco	rding to	o the ceiling load-bearing capacity.			
\otimes	1.5 m	1	K	0	3P	height-adjustable wire set 1.5 m	0,1 kg	7943000	
\otimes	3 m	1	ja K	0	3P	height-adjustable wire set 3.0 m	0,1 kg	7943100	
\otimes	6 m	1	ja K	0	3P	height-adjustable wire set 6.0 m	0,1 kg	7943200	
\otimes	Sleeve	1		0	3P	Ceiling fixing for wire	0,1 kg	5973900	
\$	Stabiliser	1	$\langle \rangle$	0	3P	Track stabiliser	0,2 kg	5974000	
0	Socket outlet	1	and and	•	3P	Socket outlet for track	0,2 kg	5858300	

PLANNING NOTES

Product colours of the track are colour-coded:

Housing colour white 01 Housing colour silver 03/D0 Housing colour black 05

The formulae for calculating the fixing points help planners to determine the correct number of wires, ceiling clips or caddy clips (for OWA ceilings). The information texts highlighted in grey can be included in the planning / calculation as information for the electrical contractor.

1x butt joint connector to be planned for each XTS21

Formula for number of fixing points:

Number of running metres of track / 1.5

- + number of end caps
- + number of corners
- + number of T-connectors x2
- + number of X-connectors x3
- = total fixing points required

The track must be equipped with a fixing point every 1.5 metres! The load on the rail between two fixing points must be balanced and must not exceed a total load of 20 kg.

Formula for number of caddy clips:

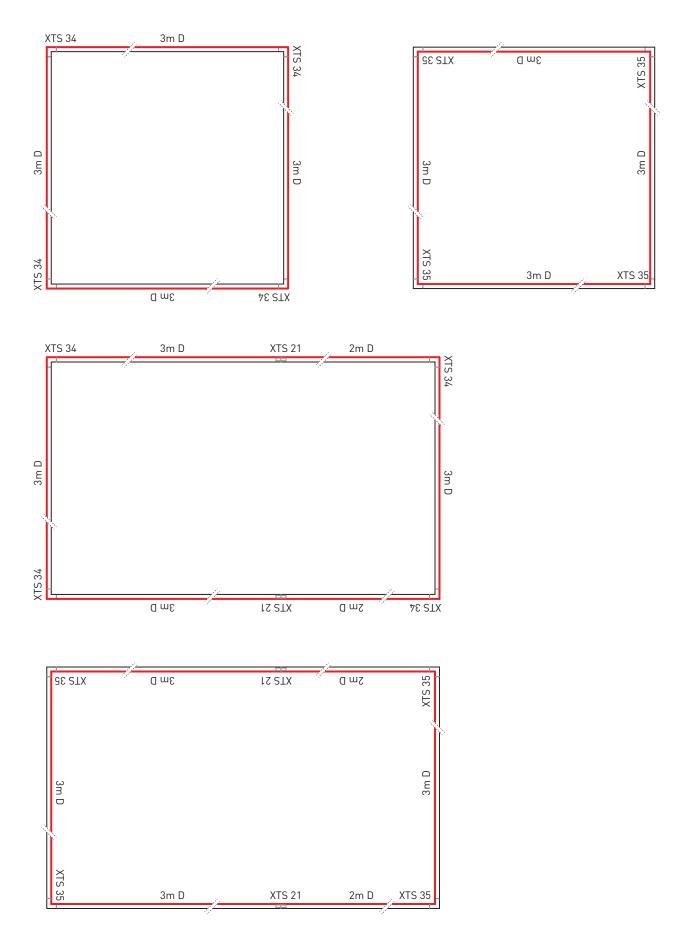
Number of running metres of track / 1.2

- + number of end caps
- + number of corners
- + number of T-connectors x2
- + number of X-connectors x3
- = total fixing points required

When **spacing the caddy clips**, the maximum load-bearing capacity of the grid ceiling must be observed. As a rule, the maximum spacing is 1.25 m/1.20 m – this corresponds to every second intersection point with the supporting profile of the grid ceiling.

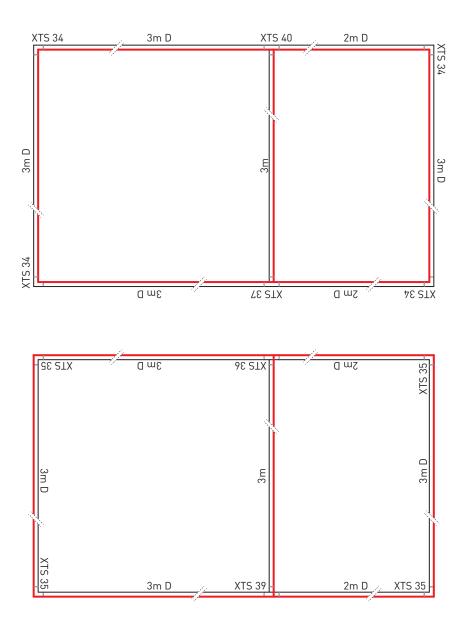
RECTANGULAR ARRANGEMENTS:

When planning the track, ensure that the phases and the neutral conductor are continuous. Simple rectangles can be formed with 4 identical L-connectors (corners).



GRID ARRANGEMENTS:

In simple grid arrangements with a rectangular outer shape, two T-connectors are always opposite each other, forming a pair. The X-connector that may be required is turned accordingly (see below).



With XTS 34 corners, XTS37 and XTS40 are opposite each other, and with XTS35 corners XTS36 and XTS39 are opposite each other. Even with more complex shapes, these two combinations are often sufficient.

FURTHER EXAMPLES

