

GIOVENZANA INTERNATIONAL B.V.

HANDLING SYSTEM



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28 - 30 - 41- wire rope-i beam - TR 85 Series Table of contents





Energy and data trasmission 28 Series

Festoon system

			Ĵ	
	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
	C-Rail bar			28
	Material: galvanized steel		1	
- Andrew -	Length: 4 mt	30603001/4		565
a labore	■ Weight: 3,92 kg			
	Load capacity: 100 kg/mt			23
	Track support bracket 2 Pieces Bolts is excluded Material: galvanized steel Step for recommended mounting near between two bracket: 1 mt	30603002	1	78 48 48 48 40 40 40 40 40 40 40 40 40 40
	Track support bracket 2 Pieces Bolts is excluded Material: galvanized steel Step for recommended mounting near between two bracket: 1 mt	30603003	1	
	Bracket connectors To join c-rails and suitable for supporting the track Material: PA 6	30603004	1	

Energy and data trasmission 28 Series

Festoon system

C.C.s.

	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
	End stop Material: PA 6	30603005	1	
	Flat cable trolley	30603008	10	
	Round cable trolley	30603012	10	
	with rotating saddle Material: PA 6 Type of roller: steel roller with ball. Travel speed 80mt/min Load capacity: 15kg 55 mm Plastic saddle (excursion 50 mm)			
	Round cable trolley			
	With metal cable clip			
	Max cable diameter: 18 mm	30603024	10	
	 Material: PA 6 Type of roller: steel roller with 	00000024	10	
- Contraction of the second se	ball. travel speed 80 mt/min.			
	Load capacity: 15kg			
	Towing trolley Material: galvanized steel Type of roller: steel roller with ball. travel speed 80 mt/min. 68 mm: Plastic saddle	30603064	1	$\begin{array}{c} 96 \\ 71 \\ 70 \\ 70 \\ 70 \\ 70 \\ 70 \\ 70 \\ 70$
	Trolley with plug and safety socket connection To connect the festoon system to the pendant station 68 mm: Plastic saddle 16 Poles 24 Poles	30603066 30603067	<u>1</u> 1	

Energy and data trasmission 28 Series

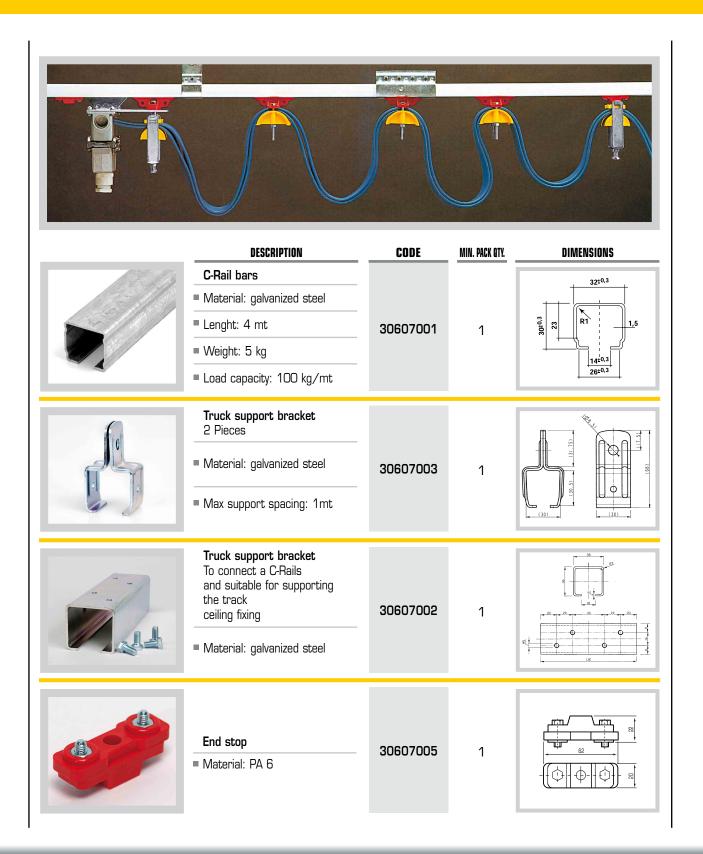
Festoon system

	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
	Light Series Trolley Main body, saddle and wheels in PA for a considerable noise reduction Type of roller: PA roller Travel speed 40 mt/min. Load capacity: 10 kg 55 mm: Plastic saddle	30603035	10	
	Steel trolley Material: galvanized steel Type of roller: steel rollers with ball bearings: travel speed 80 m/min. Load capacity: 15 kg 68 mm: Plastic saddle	30603061	10	95 45 45 45 10 10 10 10 10 10 10 10 10 10
	End clamp Material: PA 6 Load capacity: 15 kg 55 mm Plastic saddle Range 50 mm 68 mm Plastic saddle Range 50 mm Metal cable clip	30603016 30603065 30603018	1 1 1	
	40 mm Plastic saddle Material: PA 6 and galvanized steel Range 50 mm	30603030	10	
	55 mm Plastic saddle Material: PA 6 and galvanized steel Range 50 mm	30603031	10	

Energy and data trasmission 30 Series

Festoon system

G.G. hnemational



30 Series

Festoon system

 DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
Towing trolley Material: galvanized steel Type of roller: steel rollers with ball 68 mm Plastic saddle	30607007	1	
Trolley with safety plug and socket connectionTo connect the fastoon system to the pendant station68 mm Plastic saddle16 Poles24 Poles	30607008 30607019	 1	
Towing trolley Material: galvanized steel Type of roller: steel rollers with ball 68 mm Plastic saddle Material: galvanized steel Type of roller: steel rollers with wheels 68 mm Plastic saddle	30607010 30607009	10 10	
End clamp Material: PA 6 and galvanized steel 68 mm Plastic saddle	30607006	1	
Trolley in PA Material: PA Type of roller: PA steel rollers with ball bearings 55 mm Plastic saddle	30607011	10	

Energy and data trasmission 30 Series

Festoon system

G.G.S.

	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
13.12	Bracket			32±0,3
227/31	Material: galvanized steel			
S 19/	Lenght: 50 mm	30607001/05	1	
	■ Lenght: 80 mm	30607001/08	1	
	Support arm bracket Material: galvanized steel	30607004	1	72 55 8 5 5 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Support arm clip Material: galvanized steel	30607012	1	
	n.2 Terminals for every bracket ASSEMBLY E	EXAMPLE		
]
Support arm with bracket and clip	500			Towing trolley
C-Rail				Trolley
End clamp —————		U T	-	Track coupler bracket

Energy and data trasmission 41 Series

Festoon system

DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
C-Rail bars Material: galvanized steel Lenght: 4 mt Weight: 8 kg	30602001/4	1	
 Load capacity: 140 kg/mt 90° Curve 1,5 mt radius* 	30602054	1	$ \begin{array}{c c} & & & \\ \hline \\ \hline \\ + 18 \\ + 20 \\ \hline \\ + 56 \\ \hline \\ + 56 \\ \hline \\ \end{array} $
Track support bracket Ceiling fixing 2 pieces Bolts not included Material: galvanized steel Max support spacing: (1 mt recommended)	30602004	1	
Track support bracket Wall fixing Bolts not included Material: galvanized steel Max support spacing: (1 mt recommended)	30602003	1	
Track coupler bracket To join c-rail and suitable for supporting the track	30602002	1	
Double track coupler bracket Recommended for track over 50 mt Material: galvanized steel	30602034	1	

*The use of the curve requires a mechanical adjustment during assembly line.

Energy and data trasmission 41 Series

Festoon system



DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
End stop Material: Support PVC buffer	30602038	1	
Flat cable trolley Material: PA 6 Type of trolley: PA roller. Travel speed 60m/min. Load capacity: 15 kg 40 mm: Plastic saddle 55 mm: Plastic saddle Range 50 mm	30602012 30602014	<u> 10 </u> 10	
Round cable trolley Material: PA 6 Type of trolley: PA roller. Travel speed 60m/min. Load capacity: 15 kg 40 mm: Plastic saddle 55 mm: Plastic saddle Range 50 mm	30602013 30602015	10 10	
Flat cable trolley Material: galvanized steel Sliding: ball bearings travel speed 120m/min. Load capacity: 25 kg 40 mm: Plastic saddle 55 mm: Plastic saddle 68 mm: Plastic saddle Round cable trolley Material: galvanized steel Sliding: ball bearings travel speed 120m/min.	30602076 30602077 30602086	10 10 10	
 Load capacity: 25 kg 40 mm: Plastic saddle 55 mm: Plastic saddle 	30602082 30602083	<u> 10 </u> 10	

Energy and data trasmission 41 Series

Festoon system

 DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
Towing trolley Material: galvanized steel Sliding: ball bearings 68 mm Plastic saddle Range 50 mm Twin execution Single execution	30602020 30602091	1	
Trolley with safety plug and socket To connect the fastoon system to the pendant station 68 mm Plastic saddle 16 Poles 24 Poles	30602036 30602040	<u>1</u> 1	
End clamp Material: PA 6 and galvanized steel Load capacity: 15 kg 40 mm Plastic saddle 55 mm Plastic saddle 68 mm Plastic saddle Range 50 mm	30602006 30602007 30602092	1 1 1	

Energy and data trasmission 41 Series Inox

Festoon system



DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
C-Rail bars Material: stainless steel Lenght: 3 m Weight: 8 kg Load capacity: 140 kg/m	30602061	1	
Inox track support bracket Ceiling fixing 2 pieces Bolts not included Material: stainless steel Max support spacing: 1 mt recommended	30602063	1	
Inox track support bracket To join c-rail Material: stainless steel Single track coupler bracket Double track coupler bracket Recomended for track over 50 mt	30602065 30602062	<u>1</u> 1	

41 Series Inox

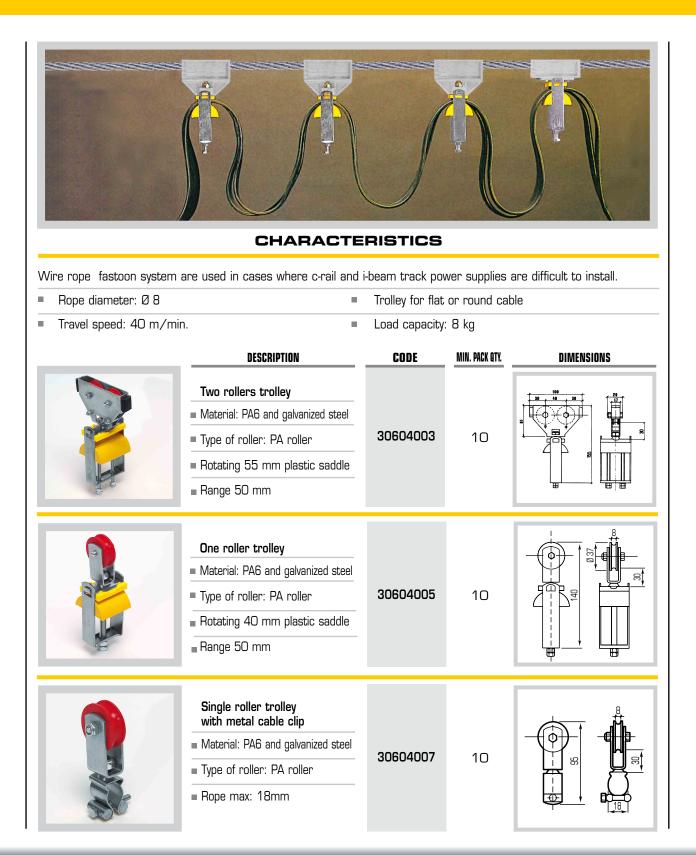
Festoon system

DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
Inox flat cable trolley Material: PA 6/stainless steel Type of trolley: PA roller: Travel speed 60m/min. Load capacity: 25 kg 55 mm Plastic saddle	30602064	1	90 46 90 90 90 90 90 90 90 90 90 90 90 90 90
Towing trolley Material: PA 6/stainless steel Type of roller: steel rollers with ball 55 mm Plastic saddle	30602067	1	90 46 46 46 46 46 46 46 46 46 46
End clamp Material: PA 6/stainless steel Load capacity: 15 kg 55 mm Plastic saddle	30602066	1	

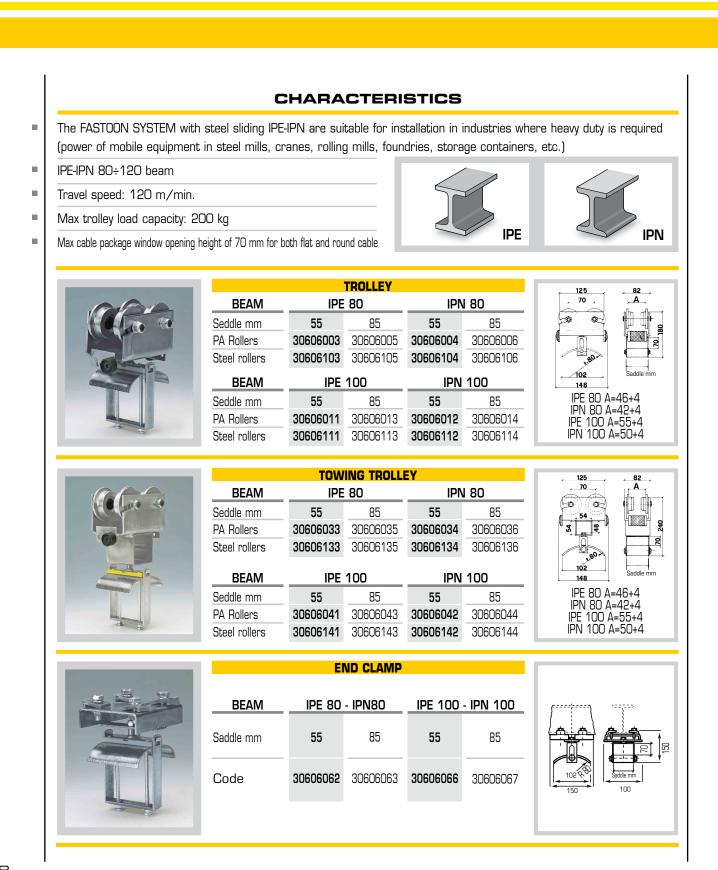
Wire rope Series

Ø 8 Rope fastoon system



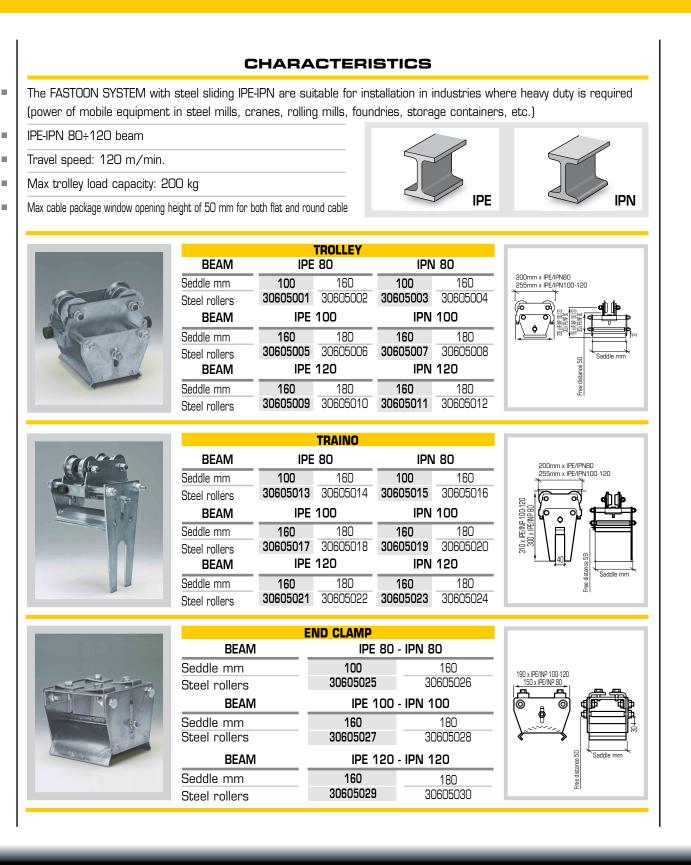


Energy and data trasmission Light Series I-Beam

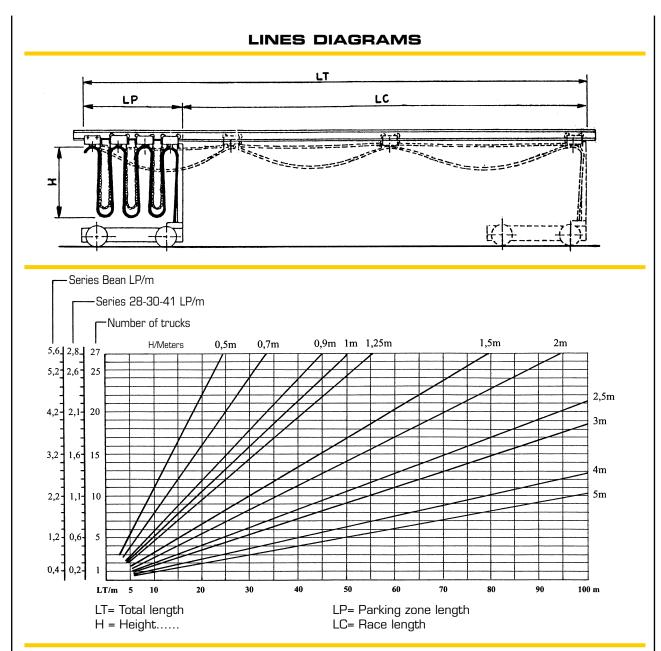


Energy and data trasmission Havy Series





Series festoon 28 - 30 - 41 and on i-beam Assembly example

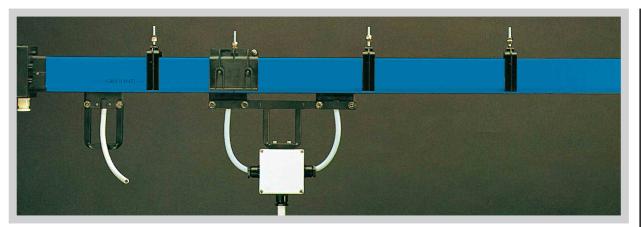


The diagram is used to determine the number of trucks necessary for the formation of the line, depending on its length. The height of the loop determines how many trucks are needed and thus their parking area. Where the parking area is too long at the expense of running real user, it must increase the height of the loops, thus decreasing the number of trucks required and therefore the parking area. To determine the cable length of a garland to increase by 10% the total length of the line and add enough to connect the two ends of the fixed and mobile users.

TR85 Trolley Series From 40A to 200A



TECHNO-LIFTING EQUIPMENT



GENERAL CHARACTERISTICS

The TR85 Series conductors rails are modern and safe system for energy and data trasmission for various types of equipment such as: cranes - bridge cranes - conveyour belts - chain conveyors - etc... The TR85 range comply with the relevant international standards ensuring operator safety, easy of installation and reliability. the system is available in the following versions:

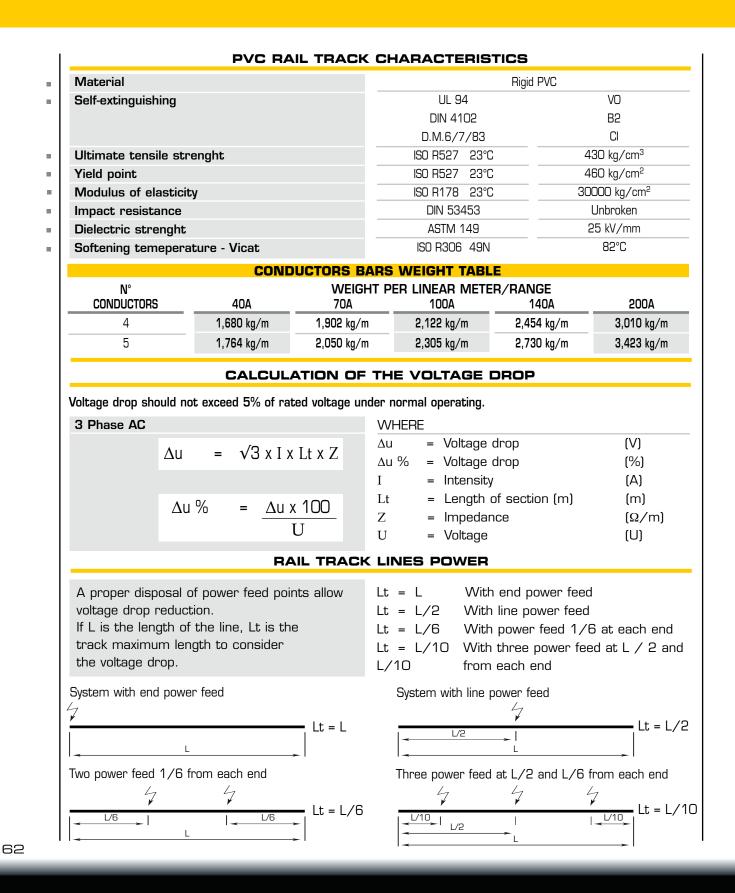
- Line A blue colour with conductors preinserted inside the plastic casing. copper strips are connected by means of dedicated terminals.
- Lina B yellow colour with conductors strip to be pulled from a coil continuosly into the pre-assembled plastic casings with the aid of a towing trolley in case of long systems.

GENERAL CHARACTERISTICS

Operating current 23°C		А	40	70	100	140	200
Comply with rules			CEI EN	N 60439-1 e 2, CEI I	EN 60695	-2-1., CEI EN	60570
Rated operating voltage	Ue	V	V 600V ac				
Frequency		H2	50 Hz				
Conditional rated short o	ircuit withstand current	; kA					
Fuse rating gG		А	A 40 70 100 160 20				
Rated short-time current	; Icw	А	A 600 900 1400 1800 250				
Protection class CEI EN	60529:						
Standard execution					IP13		
Execution with rubber					IP23		
Flammabily resistence		UL 94			VO		
	CEI EN	60695-2-1. °C			960		
Ambient temperature:	operating	°C		- 3	0 + 55		
	storage	°C		- 3	0 + 70		
Admissible current collec	tor trolley speed	m/min. ¹			200		
Conductor Cu		mm ²	m ² 9.3 15,5 21,7 31 46,5				
Resistence		Ω/m . 10 ⁻⁴	10 ⁻⁴ 18,27 10,96 7,83 5,48 3,6				
Impedance		$\Omega/m \cdot 10^{-4}$	18,36	11,01	7,87	5,55	3,67

TR85 Trolley Series

From 40A to 200A



TR85 Trolley Series

Line construction



TECHNO-LIFTING EQUIPMENT

LINE CONSTRUCTION

To define the size of trolley line TR85, is necessary to consider:

- Maximum current in service
- Devices (motors cage, ring, resistors, electronic starters)
- Devices starting currents
- Maximum ambient temperature
- The distance between device and nearest power feed
- Admissible voltage and voltage dropping in starting and continuous service
- Type of current
- Devices cycle operations (load factor)

CURRENT IN CONTINUOUS SERVICE

Specify devices number which work simultaneously to calculate the corresponding current:

IN = I1 + I2 + ..In

The current can be determined from the devices power (w) that for a three-phase system is:

$$In = \frac{Pu}{\sqrt{3} \cdot U \cdot \cos \varphi \cdot \eta}$$

- In Current Consumption Amper
- Pu Power devices Watts
- η Devices performances
- U Operating voltage in volts
- $\cos \phi$ Power factor

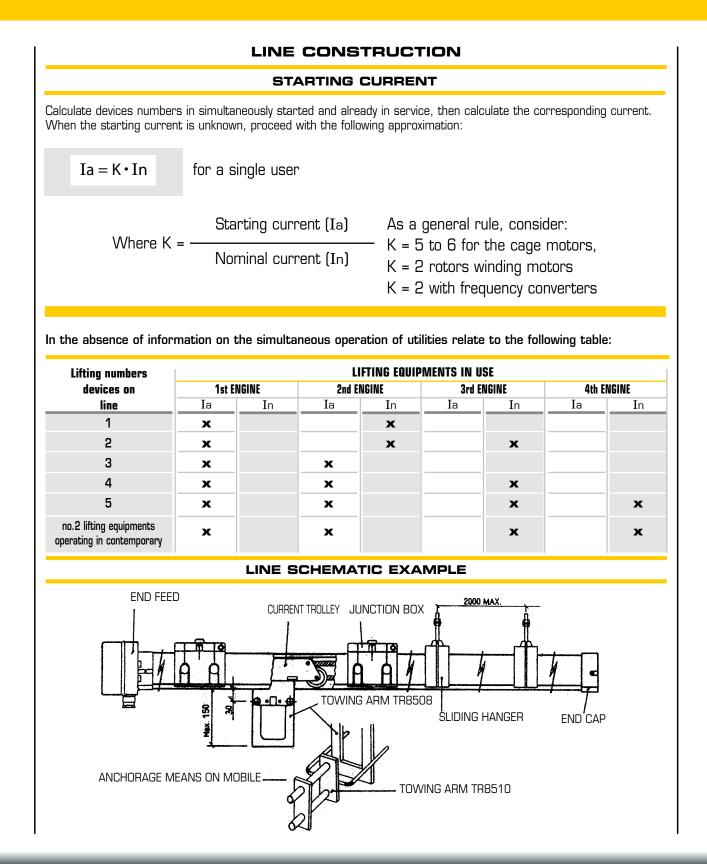
In the absence of information on the simultaneous devices operations, consider following table:

	LIFTING EQUIPMENTS IN USE					
Lifting numbers	1st ENGINE	2nd ENGINE	3rd ENGINE	4th ENGINE		
devices on line	Engine max. power (*)					
1	x	x				
2	x	x	x			
3	x	x	x			
4	X	x	x	x		
5	x	x	x	x		
no.2 lifting equipments perating in contemporary	x	×	×	×		

(*) To drag n parallel motors rated current In', consider $In = n \cdot In'$

TR85 Trolley Series

Line construction



Energy and data trasmission TR85 Trolley Series



Examples

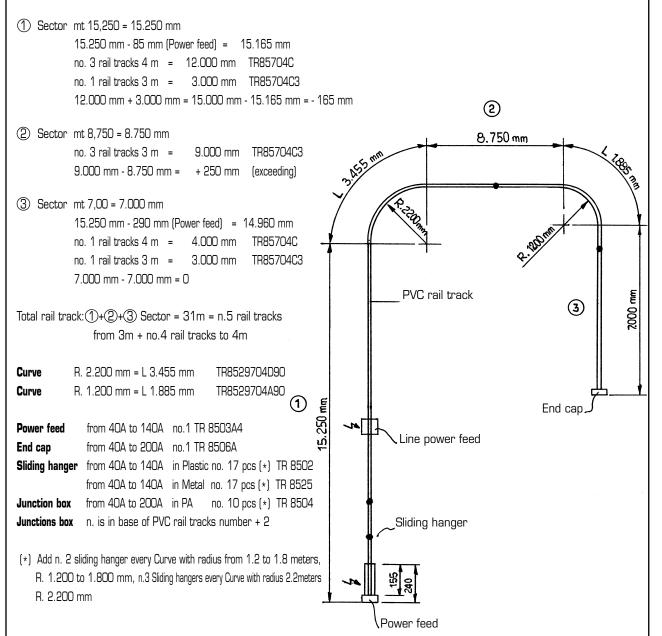
TECHNO-LIFTING EQUIPMENT

GENERAL CHARACTERISTICS

to define line overall length is necessary to consider the standard modular length, festoons, except the curves, which obtain with PVC conductors 40A to 140A, 3 and 4meters, 200A only 4 meters. The real length of the line will therefore be higher or lower than the theoretical length assumed or required.

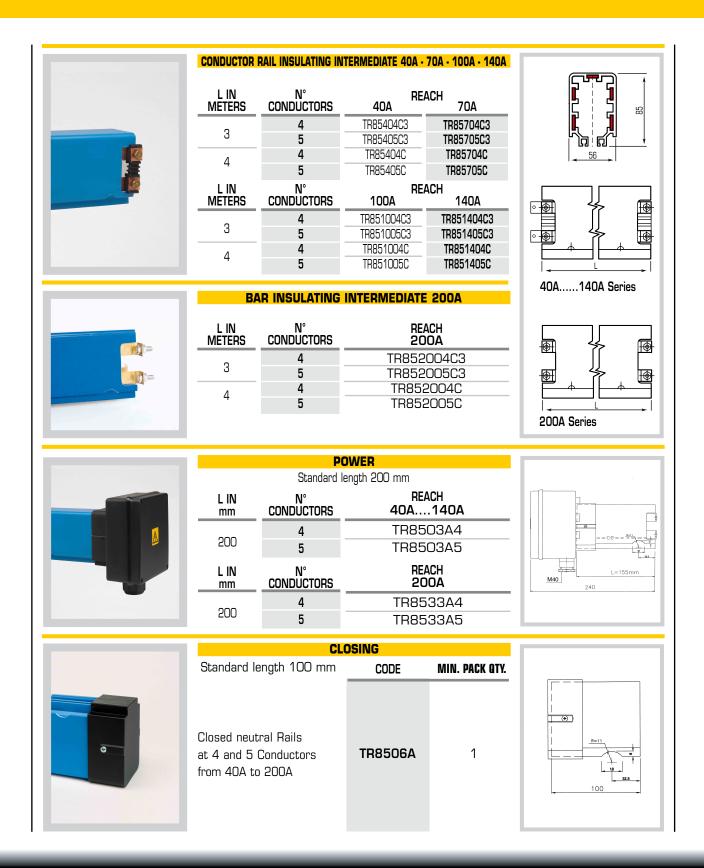
Sample order and composition of a line following the scheme indicated.

TR85 TROLLEY SERIES A LINE FROM 70A TO 4 CONDUCTORS



TR85 Trolley Series

Conductor rails - Line A "plug-in" type



TR85 Trolley Series Conductor rails - Line **A** "plug-in" type

DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
Hanger clamp only for 40A a 140A Material: PA 66 Max support spacing 2 mt (reccomended)	TR8502	1	
Steel hanger clamp Material: PA6 and galvanized steel For series from 4OA to 14OA max support spacing 2 mt (reccomended) Series 20OA n.1 max support spacing 1 mt (reccomended)	TR8525	1	
Joint cover For to join the end of two conductor rails Material: PA 66	TR8504	1	
Towing arm Material: galvanized steel	TR8510	1	
Towing arm bracket For 35A and 70A current collectors Material: galvanized steel	TR8508	1	

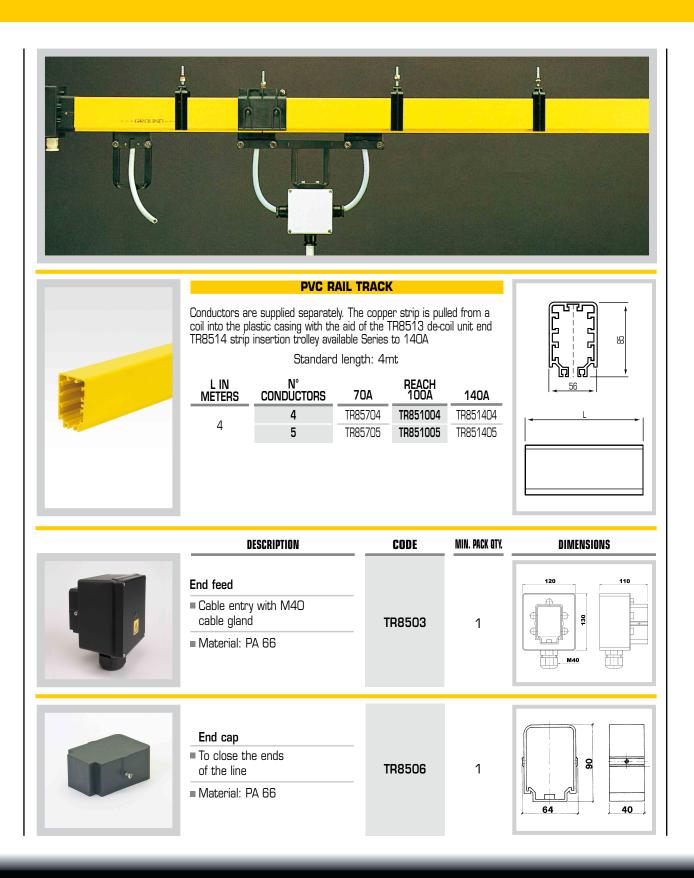


TR85 Trolley Series Conductor rails - Line **A** "plug-in" type

	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
	Support for double towing arm Connects two trolley in parallel to increase current rating For 35A and 7OA current collector trolley	TR8523	1	
	 70A Current collector trolley Fully insulated body with copper graphite collector shoes. Wheels equipped with ball bearings. For current rating over 70A. Connect more trolleys on parallel 70 amp. 3 Poles 70 amp. 4 Poles 70 amp. 5 Poles 	TR8522 TR8518 TR8519	<u>1</u> <u>1</u>	
	 35A Current collector trolley Fully insulated body with copper graphite collector shoes. Wheels equipped with ball bearings. 35 amp. 3 Poles 35 amp. 4 Poles 35 amp. 5 Poles 	TR8521 TR8511 TR8512	1 1 1	
	In line feed ■ Cable entry with Pg 29 cable gland	TR8526	1	
	CURVE 90° WITH 4 CONDUCTO			
(1) Curve composed by 2 pieces	Radius: 40/ R. 1200 mm TR85294 R. 1400 mm TR85294 R. 1800 mm TR85294 (1) R. 2200 mm R. 1200 mm TR85294 (1) R. 2200 mm R. 1200 mm TR85294 1000 TR85294 1000 TR85294 1000 TR85294 1000 TR852910 R. 1200 mm TR852910 R. 1800 mm TR852910 (1) R. 2200 mm TR852910	104A90 TR852 104B90 TR852 104C90 TR852 104D90 TR852 104D90 TR852 104D90 TR852 104D90 TR852 104D90 TR852 104D90 TR852 104B90 TR852 104B90 TR852	91404B90 91404C90	A LED TRAC

TR85 Trolley Series Conductor rails - Line B "continuos strip" type





TR85 Trolley Series Conductor rails - Line **B** "continuos strip" type

	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
	Joint cover For to join the end of two conductor rails. Material: PA 66	TR8501	1	
	Steel joint cover For to join the end of two conductor rails Material: galvanized steel	TR8524	1	
	Hanger clamp Allows the linear expansion due to climate conditions Max support spacing 2 mt recommended Material: PA 66	TR8502	1	
	 Steel hanger clamp Material: PA6 and galvanized steel Mounting space between two hanger clamps for series from 40A to 140A: 1,5 mt max 	TR8525	1	
	Towing arm Material: galvanized steel	TR8510	1	

TR85 Trolley Series Conductor rails - Line **B** "continuos strip" type



 DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
Towing arm bracket For 35A and 7OA current collectors Material: galvanized steel	TR8508	1	
Support for double towing arm Connects two trolley in parallel to increase current rating For 35A and 7OA current collector trolley	TR8523	1	
 35A Current collector trolley fully insulated body with copper graphite collector shoes. Wheels equipped with ball bearings. 35 amp. 3 Poles 35 amp. 4 Poles 35 amp. 5 Poles 	TR8521 TR8511 TR8512	1 1 1	
 70A Current collector trolley Fully insulated body with copper graphite collector shoes. Wheels equipped with ball bearings. For current rating over 70A. Connect more trolleys on parallel 70 amp. 3 Poles 70 amp. 4 Poles 70 amp. 5 Poles 	TR8522 TR8518 TR8519	1 1 1	

TR85 Trolley Series Conductor rails - Line B "continuos strip" type

I	DESCRIPTION	CODE	MIN. PACK QTY.	DIMENSIONS
	In line feed ■ Cable entry with Pg 29 cable gland	TR8526	1	
	CURVE 90° WITH 4 CONDUCTORS Curve radius: R. 1200 mm (1) R. 1400 mm (1) R. 1400 mm (1) R. 1800 mm (1) R. 2200 mm The curve must be ordered together with the line. The wires are already calculated in the total length of the line.	70A 140A TR8529A90 TR8529B90 TR8529C90 TR8529D90	1	R. J. J. Contraction of the second se
(1) Curve composed by 2 pieces		CCESSOR	IES	
	De-coil unit	TR8513	1	
	Strip insertion trolley	TR8514	1	

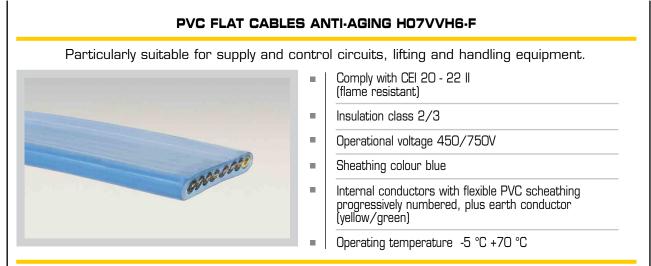
Energy and data trasmission TR85 Trolley Series Line A and B





CP Series conductors

Flat cables



CODE	N° Cross Section	APPROXIMATE Outer Dimensions	STRAND n./ mm	APPROXIMATE WEIGHT gr/m	TOTAL CROSS SECTION mm²	CODE	N° Cross Section	APPROXIMATE Outer Dimensions	STRAND n./ mm	APPROXIMATE WEIGHT gr/m	TOTAL CROSS SECTION mm²
CPO415AF	4X1,5	15X5,2		150	6	CP2425AF	24X2,5*	54X13	50X0,25	1.100	60
CPO815AF	8X1,5	29X5,5		300	12	CP0404AF	4X4	21X7,5		330	16
CP1215AF	12X1,5	41X5		420	18				56X0,30		
CP1615AF	16X1,5	54X8	30X0,25	510	24	CP0804AF	8X4	38X5		550	32
CP1815AF	18X1,5	43X11		700	27	CP0406AF	4X6	24X8	84X0,30	440	24
CP2415AF	24X1,5	51X13		1.000	36	CP0806AF	8X6	38,5X8		742	48
CPO425AF	4X2,5	21X5,7		240	10	CP0410AF	4X10	35X11	7X12X0,40	800	40
CP0825AF	8X2,5	33X6		420	20						
CP1225AF	12X2,5	50X7	50X0,25	640	30	CPO416AF	4X16	36,5X12	7X18X0,40	1.200	64
CP1625AF	16X2,5	41X13		1.000	40	CP04250AF	4X25	43X13	7X28X0,40	1.700	100
CP1825AF	18X2,5*	50X13		1.050	45	CPO435AF	4X35	50X14	7X39X0,40	2.050	140

On request the same cables can be supplied - minimum requirement is 500 m - with:

heat resistant upto 105° tinned red copper shield.

* Minimum supply 500 m.

CT Series conductors

Round cable with dual strain relief cords

12903010



TECHNO-LIFTING EQUIPMENT

ROUND CABLE WITH DUAL STRAIN RELIEF STEEL WIRES - S05VVD7-F Made for heavy duty applications in particular for pendant push button stations and moving electromechanical components. The two steel wire ropes are embedded, diametrically opposed to PVC sheathing. The rope cut into lengths and just hooked the steering control to avoid any stress on the cable. Comply with CEI 20 - 22 II (flame resistant) Insulation class 2/3 Operational voltage 300/500V Sheathing colour blue Internal conductors with flexible PVC Scheathing progressively numbered, plus earth conductor (yellow/green) Operating temperature: -5°C +70°C Ø 2mm steel wires Breaking point: 60 kg/mmq N° CROSS Section APPROXIMATE OUTER DIMENSIONS STRAND **APPROXIMATE WEIGHT TOTAL CROSS** CABLE Ø WIRE ROPE SECTION mm² CODE n./ mm gr/m CT0815AUAF 8X1.5 11.6 23.6 225 12 18 CT1215AUAF 12X1,5 14,4 26,4 315 CT1615AUAF 16X1,5 16 28 415 24 30X0,25 CT1815AUAF 18X1.5 29 470 27 17 30 CT2015AUAF 20X1,5 18 30 525 CT2415AUAF 24X1.5 21 33 620 36 FLAT CABLE 37 98 GIOVENZAN

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INTERNATIONA

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Complementary products Switch - Disconnectors

 Fixing box DIN Terminal prote Complete of c with yellow from 	ules: IEC 947-3, El -RAIL 50022-35 ection class IP20 ommand to knob v m plate - red knob ss EN60529-IP65	vith locking (m	nax.3 lck)							Ĩ	-		
SERIES	AC-21A Amp.690v	AC-23/ AMP.40		SCHEME					CODE				
SQ032	40	32		1L1 3L2 5L3					SQ032003B				
SQ063	80	67					+++	D		SQO	630()3B	
SQ125	125	125	i				2T1 4T2 6T			SQ1	250	5003B	
		OOR IN	ITERLO	ск	СС	זאכ							
	Yellow fro	ont plate	Γ		30,2 1	+4	, 1	7,3	_	<u>`</u>		-1	
	Red-knob Locking k	:nob (Max3)		-					-		00) 0- 00		
	□67				.	+ ↔ ·	L	15		- C	Ĩ		
FOR SERIES		CODE)12/0001*		ERIES	A	В	C	D	E	F	G	L	
SQ063)42/0001*		QO32 QO63	45 52,5	52,6 72,5	22 43,5	60 82,5	12,5 17,5		60,3 67,8	80142 max 112142 max	
SQ125		231/0001		Q125	65,2	92	-5,5 51,2	102,2	22,5	16	64	127327 ma	
	EL	ECTRIC	AL CH	AR	401	ΓER	IST	ICS	,				
CHARACTERISTIC	cs iec/en60947-3						SQC)32	S	3063		SQ125	
Rated insulation	n voltage Ui					V	69	30	(590		800	
Rated impulse v	vithstand voltage Uim	р			k	۲V	8			8		8	
Rated thermal current lth-lthe					-	A	4			80		125	
					H	lz	50/	/60	50	D/60		50/60	
Frequency													
Frequency RATED OPERATIN								_					
Frequency RATED OPERATIN AC-21A Switching	resistive loads with ligh			690V		A	4			80	-	125	
Frequency RATED OPERATIN AC-21A Switching AC-22A Switching mix	resistive loads with ligh ed resistive and inductive loa			690V		A	3	2		80		25	
Frequency RATED OPERATIN AC-21A Switching AC-22A Switching mix	resistive loads with ligh		3 phases - 3 poles	690V 230V	1	A A	3 3	2		80 75		25 125	
Frequency RATED OPERATIN AC-21A Switching AC-22A Switching mix	resistive loads with ligh ed resistive and inductive loa		3 phases - 3 poles	690V	1	A	3	2 2 2		80	1	25 125	
Frequency RATED OPERATIN AC-21A Switching AC-22A Switching mix AC-23A Periodic s	resistive loads with ligh ed resistive and inductive loa		3 phases - 3 poles	690V 230V 400/500V	1	А А А	3 3 3	2 2 2 0		80 75 67		25 125 25/100	
Frequency RATED OPERATIN AC-21A Switching min AC-23A Periodic s Reated breaking of Conditional rated	resistive loads with ligh ed resistive and inductive loa switching of motors apacity (cosfi 0,45)		3 phases - 3 poles	690V 230V 400/500V 690V 400V	, , ,	A A A A A	3 3 3 2 25 1	2 2 2 0 56 0		80 75 67 32 536 10		25 125 25/100 80 100 (cosfi 0,3 10,5	
Frequency RATED OPERATIN AC-21A Switching AC-22A Switching AC-23A Periodic s Reated breaking of Conditional rated Fuse rating gG	resistive loads with ligh red resistive and inductive loa switching of motors apacity (cosfi 0,45) short circuit		3 phases - 3 poles	690V 230V 400/500V 690V 400V	, , , ,	A A A A A A	3 3 2 25 1 4	2 2 2 0 56 0 0		80 75 67 32 536 10 63		25 125 25/100 80 000 (cosfi 0,3 10,5 125	
Frequency RATED OPERATIN AC-21A Switching min AC-23A Periodic s Reated breaking of Conditional rated	resistive loads with ligh red resistive and inductive loa switching of motors apacity (cosfi 0,45) short circuit		3 phases - 3 poles	690V 230V 400/500V 690V 400V 690V flex cable	r k	A A A A A A M ²	3 3 2 25 1 4 1,5	2 2 0 56 0 0 -10	Ę	80 75 67 32 536 10 63 63 5-25		25 125/100 80 000 (cosfi 0,3 10,5 125 10-70	
Frequency RATED OPERATIN AC-21A Switching AC-22A Switching AC-23A Periodic s Reated breaking of Conditional rated Fuse rating gG	resistive loads with ligh red resistive and inductive loa switching of motors apacity (cosfi 0,45) short circuit		3 phases - 3 poles	690V 230V 400/500V 690V 400V 690V	i k m e m	A A A A A A	3 3 2 25 1 4 1,5 1,5	2 2 2 0 56 0 0		80 75 67 32 536 10 63		25 125 25/100 80 000 (cosfi 0,3 10,5 125	

Performing basic 3 poles with mounting possibilities on three sets of power contacts, Neutral, ground and auxiliary contacts NC and NO. Certification cUL Series SQ032 - SQ063



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