



## ATHLETICS – FIX CABLING INDOOR

### USER'S MANUAL

3373.532.02 | Version 1.0 |



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## Caution and safety precautions

- Never use any other charger than the supplied or a type approved by Swiss Timing. This could destroy the battery, cause damage to unit, and possibly cause personal injury due to fire or/and electrical shock.
- Never bypass a power cord ground lead by breaking off the ground pin, or by using inappropriate extension cords or adapters.
- Never plug a power cord into the AC power source until you have made sure that all installation, cabling and power levels, are proper, and that the applicable procedures in this manual have been followed.
- Protect the equipment against splashing, rain and excessive sun rays.
- Never use the device if it is damaged or insecure.
- Verify the selection of the power distribution.
- Verify that the voltage quoted on the rating plate is the same as your voltage. Connect the appliance only to power sockets with protective earth. The use of incorrect connection voids warranty.
- This program may be modified at any time without prior notification.
- Do not open the case; there is nothing that needs servicing inside it. Nevertheless, if the case must be opened, you must call for some qualified personnel. The power supply cable must be disconnected before opening the case.
- During the transport of all Swiss Timing equipment delivered with a reusable carry case, the said case should be used at all times. This is imperative to limit the damage, such as shocks or vibration that can be caused to the units during transport.
- The same cases should also be used when returning equipment to Swiss Timing for repair. Swiss Timing reserves the right to refuse all guarantees if this condition is not fulfilled.
- If the installation includes a horn, be sure to maintain a sufficient security distance from the public.

## Documentation Updates

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## Environment




This symbol indicates that this product should not be disposed with household waste. It has to be returned to a local authorized collection system. By following this procedure you will contribute to the protection of the environment and human health. The recycling of the materials will help to conserve natural resources.

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## 1 INTRODUCTION

Swiss Timing's fixed athletics cabling allows the control room to be connected to the track using underground cables. It is compatible with the new ASC3 false start units and the Athletics Switcher Indoor (ASI) when using several cameras.

Connections are possible in pits situated on the track, namely FINISH (200M track) and 60M (Start)

All timing devices can be connected to it, such as:

- Photoelectric cells (200M-FINISH, 60M-FINISH and 1500M)
- Running time display board
- Start system
- False start unit
- Telephone
- Infield cameras (Start and Finish)

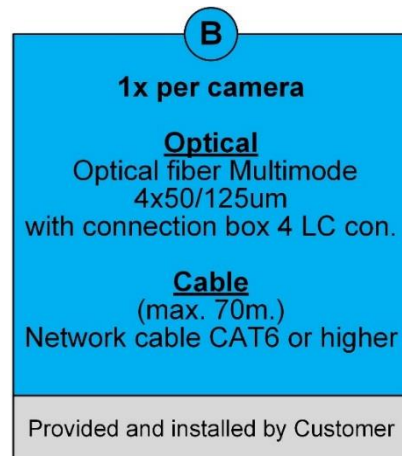
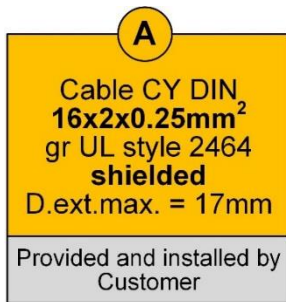
This manual offers the most frequently used versions by our customers, nevertheless there are a multitude of other possibilities that can be perfectly adapted to your needs.

## 2 CONNECTIONS

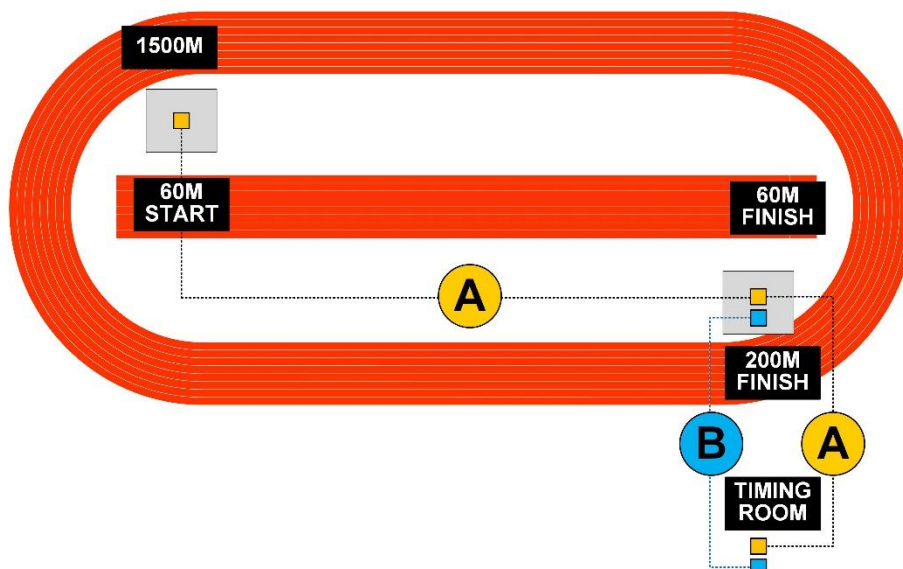
### 2.1 Cable and optical fiber

The fix cabling is connected through a copper cable from the timing room to the track and around the track.

The Myria Infield camera and Scaider camera are connected through a copper cable or an optical fiber from the timing room to the track.



The figure below shows the Standard line cabling.



## 2.2 Pit

A minimum of 2 pits are necessary:

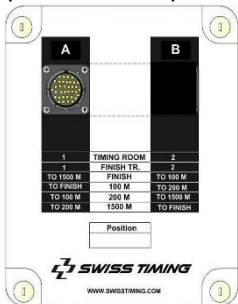
- START 60M
- FINISH 200M

A fix box is installed in each pit :

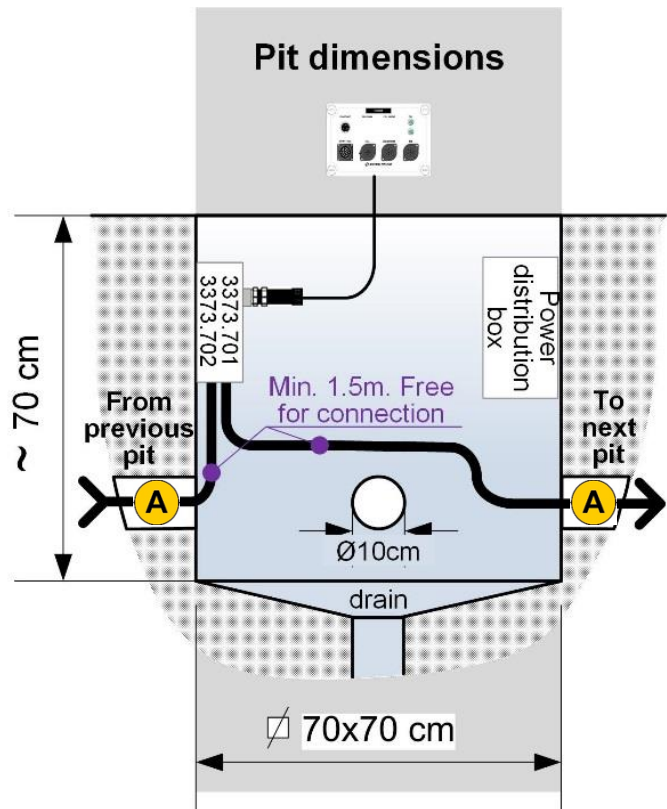
### Basic & Standard

**3373.701**

(1 connector)

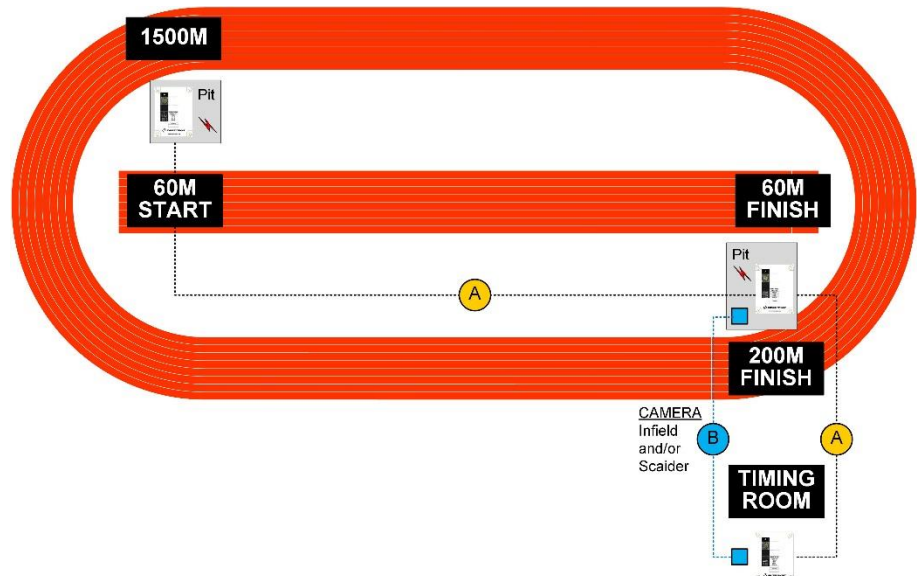


The copper cables **A** are connected to the fix boxes.

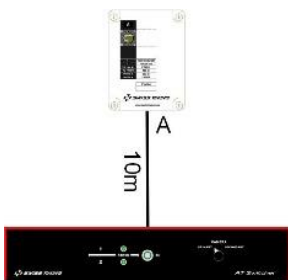


## 2.3 General cabling

### 2.3.1 Track



### 2.3.2 Timing room

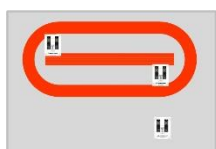


In the timing room, a fix box connected with a cable to the Athletics Switcher is installed.

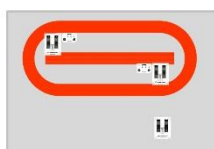
### 3 CONFIGURATION

Several configurations are available but we can offer other possibilities on request.

- 3373.971 Standard ATH-TRACK indoor fix cabling
- 3373.975 Standard ATH-TRACK indoor fix & mobile cabling

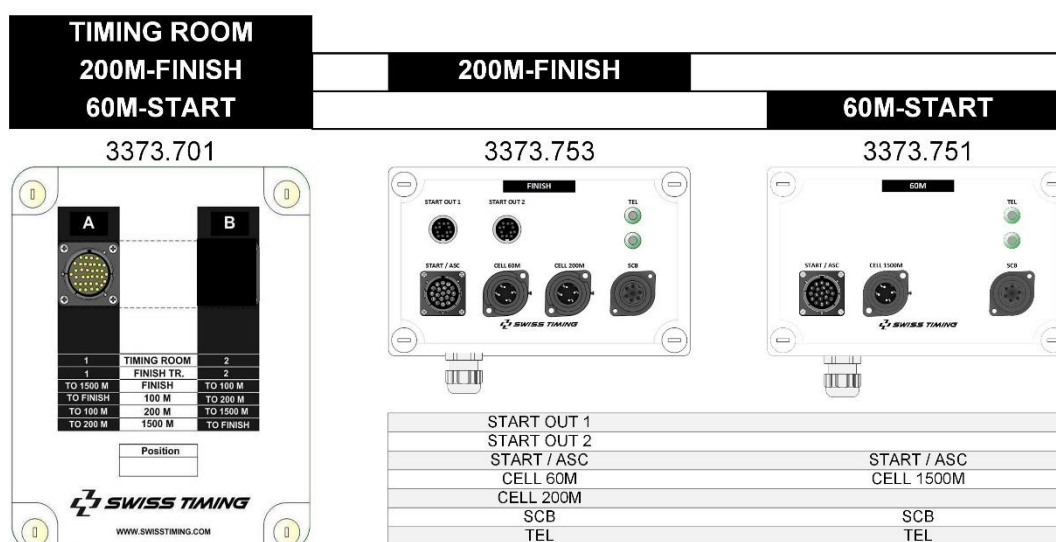


3373.971



3373.973

#### 3.1 Boxes



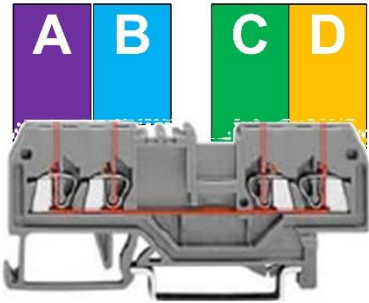
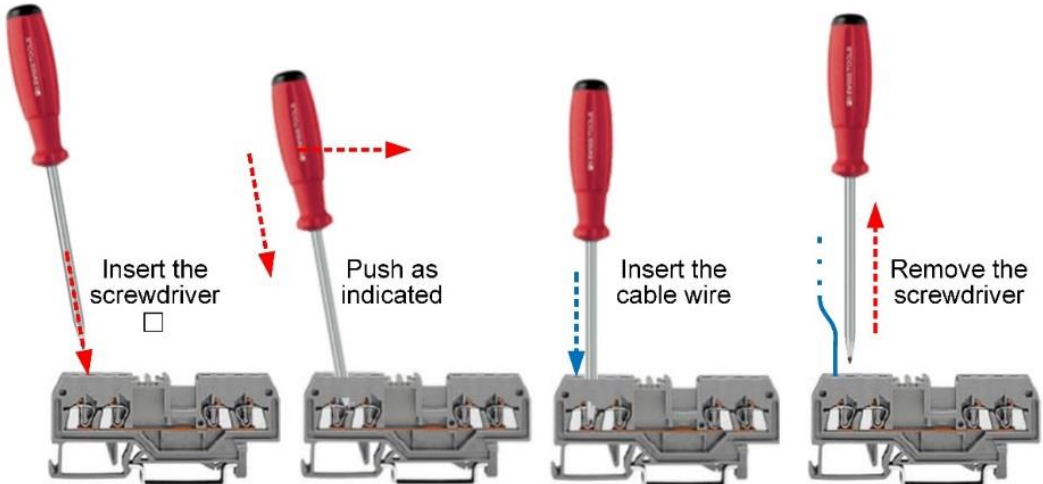
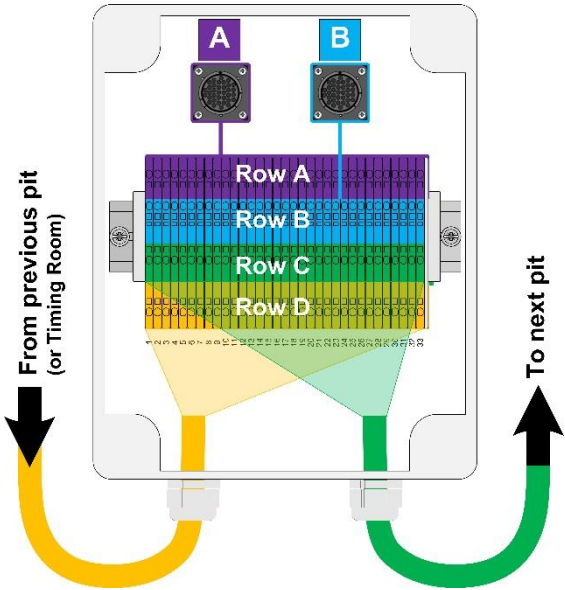
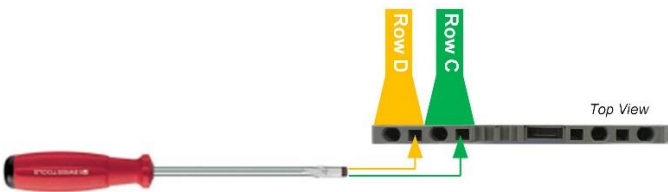
#### 3.2 Boxes dimensions

	L	W	C	Height	Length	Width	Cables	Weight
	cm							kg
H				25	20	10	10	1.2
H				14	20	10	8	0.2



### 4 WIRING **A** CABLE

- Open the cover box
- Connect cable **A** from previous pit to Row D
- Connect cable **A** to next pit to Row C
  
- Insert the screwdriver 00 in the square of the corresponding row



### 4.1 Fix box 3373.701

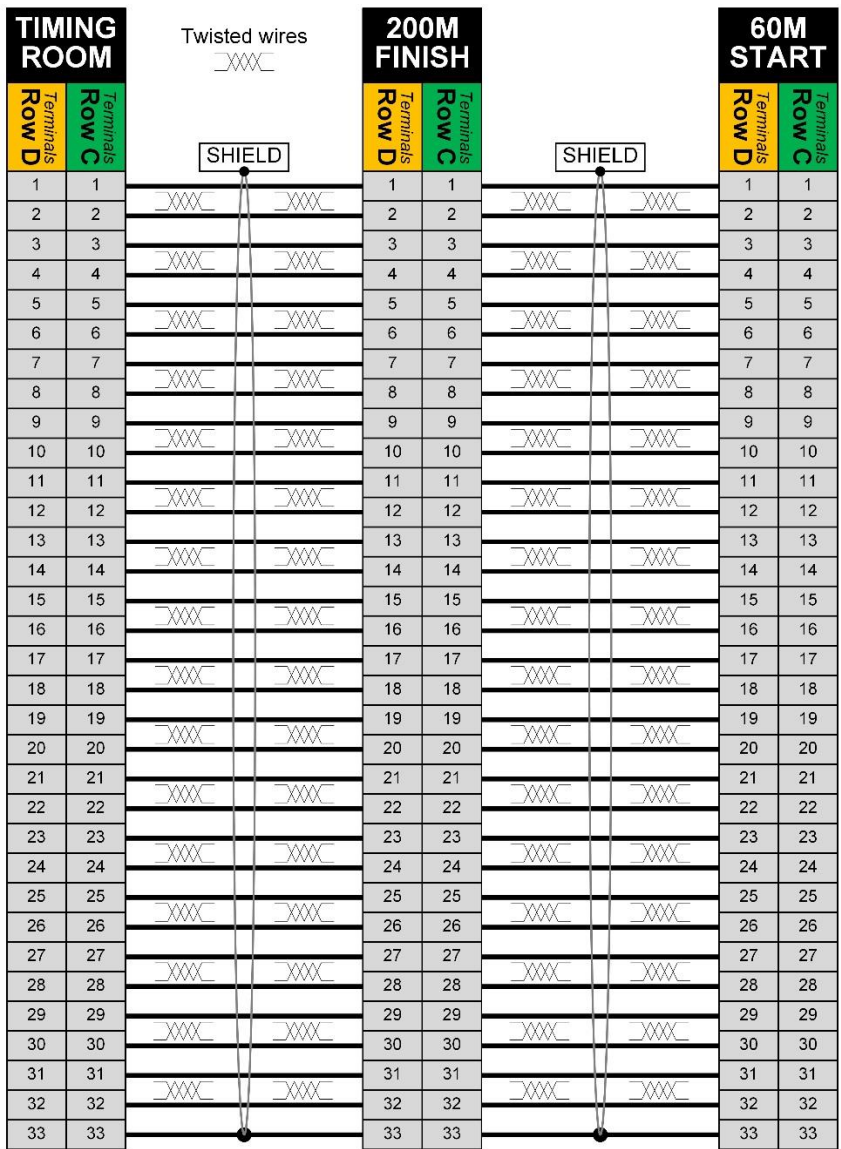
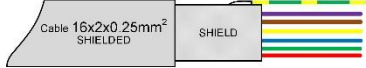
UTG 35pFT	Terminals	Wire colour	Direction	Description															
A	1	Wt	←	ASC.60M -	L	11	Gy-Pk	←	CELL.200M +	X	21	Wt-BI	→	PRY.200M.FINISH +	h	31	Gn-BI	→	TEL Line a
B	2	Bn	←	ASC.60M +	M	12	Rd-BI	←	CELL.200M -	Y	22	Bn-BI	→	PRY.200M.FINISH -	i	32	YI-BI	←	TEL Line b
C	3	Gn	←	ASC.200M -	N	13	Wt-Gn	→	SDY.200M.FINISH +	Z	23	Wt-Rd	→	PRY.200M.READY +	j				
D	4	YI	←	ASC.200M +	P	14	Bn-Gn	→	SDY.200M.FINISH -	a	24	Bn-Rd	→	PRY.200M.READY -	k				
E	5	Gy	→	READY.200M +	R	15	Wt-YI	←	SDY.200M.READY +	b	25	Wt-Bk	←	PRY.200M.START +	m	33	YI-Gn		SHIELD
F	6	Pk	→	READY.200M -	S	16	YI-Bn	←	SDY.200M.READY -	c	26	Bn-Bk	←	PRY.200M.START -					
G	7	Bl	→	SCB RS422 +	T	17	Wt-Gy	→	SDY.200M.START +	d	27	Gy-Gn	→	READY.60M +					
H	8	Rd	→	SCB RS422 -	U	18	Gy-Bn	→	SDY.200M.START -	e	28	YI-Gy	→	READY.60M +					
J	9	Bk	←	CELL.1500M +	V	19	Wt-Pk	←	CELL.FINISH.60M +	f	29	Pk-Gn	←	START +					
K	10	Vt	←	CELL.1500M -	W	20	Pk-Bn	←	CELL.FINISH.60M -	g	30	YI-Pk	←	START -					



Solder Yellow-Green wire to the shield and connect it to terminal 33

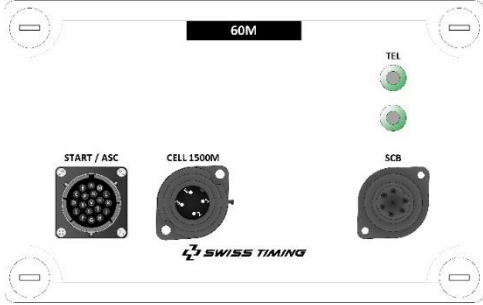
→ From Timing Room to TRACK  
← From TRACK to Timing Room

CELL	Photocell
PRY	Primary
SDY	Secondary
SCB	Scoreboard



5 CONNECTORS DESCRIPTION

TRACK							
<b>START OUT 1 START OUT 2</b>		<b>START / ASC</b>		<b>CELL 60M CELL 200M CELL 1500M</b>		<b>SCB</b>	
Contacts		Contacts		Contacts		RS422	
DIN 12pFT		UTG 19pFT		Tuchel 4pMT		Tuchel 7pFT	
A		A	RS422- from ASC	1		1	
B	READY +	B	RS422+ from ASC	2	From CELL-	2	
C	FINISH +	C		3	From CELL+	3	RS422- to SCB
D	FINSH -	D		4		4	RS422+ to SCB
E	START +	E	READY- to ASC			5	
F	START -	F	START+ from ASC			6	
G		G	START- from ASC			E	
H		H	READY+ to ASC				
J		J					
K		K					
L	READY -	L					
M		M					
		N					
		P					
		R					
		S					
		T					
		U	Tel Line a				
		V	Tel Line b				



## 6 TECHNICAL SPECIFICATIONS

<i>Dimensions:</i>	See chapter 3.2
<i>Weight:</i>	
<i>Protection:</i>	IP45
<i>Working temperature:</i>	0°C to 50° C
<i>Temperature range storage:</i>	-30 to 85°C
<i>CE Standards:</i>	CE

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## 7 APPENDICE

### 7.1 Index figures

No table of figures entries found.

### 7.2 Version history

Version	Modifications since last version
1.0	Initial version

**NOTES**

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