

The size of the IIC shields should be sufficient to allow the cone to pass over the driveline's outer cone. Diameter D_1 must therefore be larger than the diameter of the outer cone, or any type of torque limiter or clutch installed on the driveline.

The table below shows appropriate IIC shield diameter codes (i.e. the diameter D in centimeters) for various driveline attachments.

IIC shields and driveline shields should allow minimal access to revolving parts, while leaving the driveline easy to install and free to articulate.

Driveline Attachment	S1	S2	S4	S5	S6	H7	S8	H8	S9	SH	S0
Yokes for single cardan joints	17	19	19	19	21	21	21	21	23	25	25
Yokes for 50° CV joints	---	---	23	---	25	---	25	25	---	---	---
RA - RL	17	19	19	19	21	21	21	21	23	25	25
SA - LN - LC - LT	17	19	19	19	21	---	---	---	---	---	---
LB	19	19	19	21	21	21	21	21	23	25	---
LR23 - LR24	---	---	19	19	21	21	21	21	23	---	---
LR35	---	---	---	---	---	---	23	23	23	25	25
FV22 - FFV22 - FT22	21	21	---	---	---	---	---	---	---	---	---
FV32 - FFV32 - FT32	---	---	23	23	23	---	---	---	---	---	---
FT34 - FFV34 - FT34	---	---	23	23	23	23	23	23	23	---	---
FV42 - FFV42 - FT42	---	---	25	25	25	25	25	25	---	---	---
FV44 - FFV44 - FT44	---	---	---	---	---	---	25	25	25	25	25
FNV34 - FFNV34 - FNT34	---	---	---	---	23	23	23	23	23	---	---
FNV44 - FFNV44 - FNT44	---	---	---	---	25	25	25	25	25	25	25

The IIC shield length L is measured from the face of the metal plate to the end of the plastic shield.

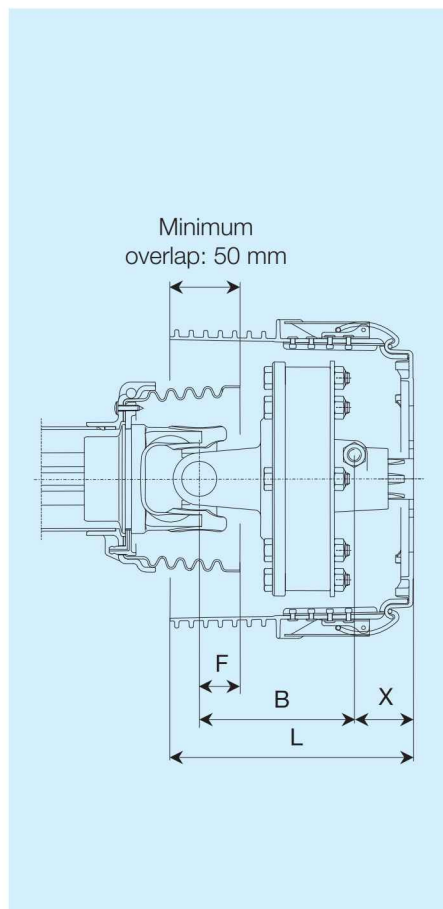
Standard shield lengths are shown in the table below and must be chosen to provide sufficient overlap with the driveline shield, while leaving the necessary space for shaft installation and movement.

IIC shield length L can be calculated by the formula $L = X + B + 50 - F$, where X is the length of the implement shaft, and 50 mm is the shield overlap required by standards EN12965 and ANSI/ASABE S604.

Length B is measured from the annular groove of the splined shaft to the center of the cross. These dimensions are listed within this catalog for each yoke, torque limiter, or clutch (see section for relevant size driveline).

Length F is measured from the protrusion of the shield to the cross center. This dimension is also listed in the tables related to driveline sizes.

The table below shows the length codes for each IIC shield. Always choose the next longer standard length above the calculated length to maintain a 50 mm overlap with the driveline shield.



$$L = X + B + 50 - F$$

Length code	L (mm)				
	D=170 mm	D=190 mm	D=210 mm	D=230 mm	D=250 mm
05	122	122	122	122	122
10	135	135	135	135	135
15	147	147	147	147	147
20	160	160	160	160	160
25	172	172	172	172	172
30	185	185	185	185	185
35	197	197	197	197	197
40	210	210	210	210	210
45	222	222	222	222	222
50	---	235	235	235	235
55	---	247	247	247	247
60	---	---	260	260	260
65	---	---	---	272	272
70	---	---	---	285	285
75	---	---	---	---	300

IIC shields should be chosen depending on their intended application, the yoke, torque limiter, or clutch to be covered, their dimensions, and on normal driveline movements during implement operations and maneuvers.

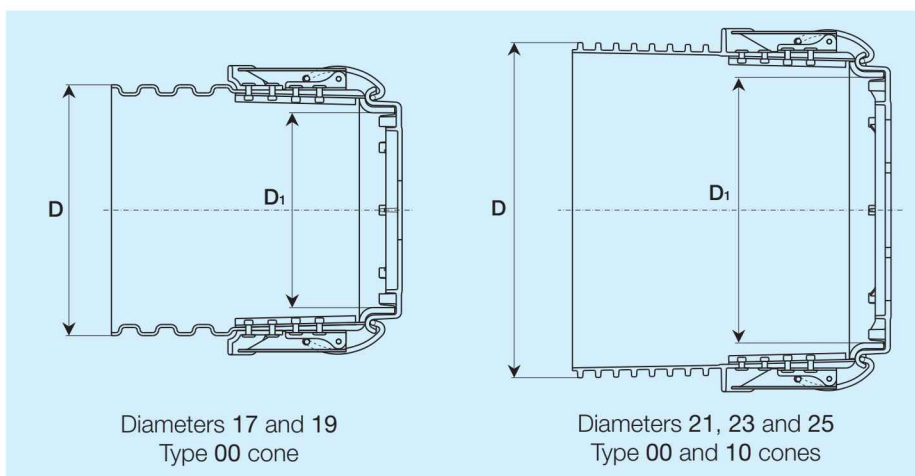
IIC shields, as well as driveline shields, should allow minimal access to revolving parts, but allow unhindered driveline movements.

Standard ISO 5673-1 defines a minimum 150 mm access.

SFT IIC shields are available with two types of shield cones, 00 and 10, which differ in shape, material and diameters.

Type 00 cones come in five different diameters and can be applied to end yokes, overrunning clutches, torsionally resilient joints, ratchet torque limiters, shear bolt torque limiters, and automatic torque limiters.

Type 10 cones come in three diameters and are made of heat-resistant plastic. They are recommended especially for protecting friction torque limiters, which are often used in heavy-duty applications and can reach high working temperatures.



Diameter code	Type 00		Type 10	
	D mm	D ₁ mm	D mm	D ₁ mm
17	170	132	---	---
19	190	152	---	---
21	214	165	214	165
23	235	185	235	185
25	259	207	259	207

Codes for SFT IIC shields

- 1 2 3
3 9 5 SFT IIC shield
- 4 5
 IIC shield type
 00: for yokes, ratchet torque limiters, shear bolt limiters, automatic limiters
 10: heat-resistant plastic, recommended for friction torque limiters
- 6 7
 IIC shield diameter
 17, 19, 21, 23, 25 for type 00 cones
 21, 23, 25 for type 10 cones
- 8 9
 IIC Shield length
 05, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70,75
- 10 11
C E

Example: 395 00 23 30 CE
 is the code for ordering a SFT IIC Shield with 00 cone, diameter D = 230 mm (code 23), length L = 185 mm (code 30), with an instruction sheet valid for all countries of destination.

Bondioli & Pavesi offers a wide range of shields for PTO's, specifically designed for drivelines and fully compliant with international standards.

Due to the broad range of implements and applications, the specifications contained herein should be used as a general guide to the selection of an implement input connection shield.

The implement manufacturer is responsible for selecting suitable IIC shielding according to the application, the size and the articulation range of the driveline, the standards applicable for the country of destination.

Thorough testing of the IIC shield by the implement manufacturer under actual field conditions is necessary and strongly recommended by Bondioli & Pavesi.

All rotating parts must be guarded. The shields on the tractor and on the implement machine must form an integrated guarding system with the driveline guard.