



Plug Model CS 43/44/45



Features

- Angled or straight plug
- Small and handy plug
- Flexible cable
- Ground terminal will establish initial contact
- Different plastic colors available
- Perfect fit with the Sonion CS43/44/45 sockets

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Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

1. History Revision

Revision Number/Date	Change from last revision
v6 / Feb-2008	History Revision added. Disconnection forces corrected from Max. to Min.
MT1007.A (07/08)	No technical updates
v7 / 22-Jul-2009	IEC 118-12:1996 information added. Operational temperature and Operational humidity has been removed. New layout
v8 / 10-Jan-2014	Updated design and new RoHS logo directive (2011/65/EU)
v9 / 17-Feb-2014	Discontinue cable style 03 for CS 43 + Change color naming from red to brown and yellow to grey
v10 / 03-Sep-2019	Change of storage temperature and humidity (CR3860)
v11 / 15-Sep-2020	Minor cosmetic changes (CR4297)

2. Mechanical Specifications

Connection force, initial		
CS 43		Min. 2.5 N
CS 44		Min. 3.0 N
CS 45		Min. 3.5 N

Disconnection force, initial		
CS 43		Min. 5.5 N
CS 44		Min. 6.0 N
CS 45		Min. 6.5 N

Lifetime		
Connection and disconnection of socket		Min. 10,000 cycles

Bending of cable, initial		
Ø 1.4mm cable		Min. 10,000 bending cycles
Ø 2.0mm cable		Min. 2,000 bending cycles
Tinsel cable		Min. 10,000 bending cycles

Pull strength of cable		
Ø 1.4mm		Min. 20 N
Ø 2.0mm		Min. 20 N
Tinsel cable		Min. 15 N

3. Electrical Specifications

Contact resistance		Max. 150 mΩ
Contact resistance pulling with 1N in all directions		Max. 150 mΩ

Cable resistance		
Ø 1.4 - 1.5 mm cable		Max. 3 Ω/m
Ø 2.0 mm cable		Max. 2 Ω/m
Tinsel cable		Max. 3 Ω/m
Insulation resistance		Min. 1 MΩ

Cable capacitance		
Ø 1.4 - 1.5 mm cable, between conductors		Max. 100 pF/m
Ø 2.0 mm cable, between conductors		Max. 150 pF/m
Ø 2.0 mm cable, between conductor and shield		Max. 250 pF/m
Tinsel cable		Max. 150 pF/m
Max. continuous current		150 mA

4. Material Specifications

All materials comply with RoHS directive (2011/65/EU)

Metal parts	Gold plated brass and beryllium copper
Plastic parts	Polyamid 6.6

Lubricant, glue / seal, and paint specifications are proprietary information.

5. Environmental Conditions

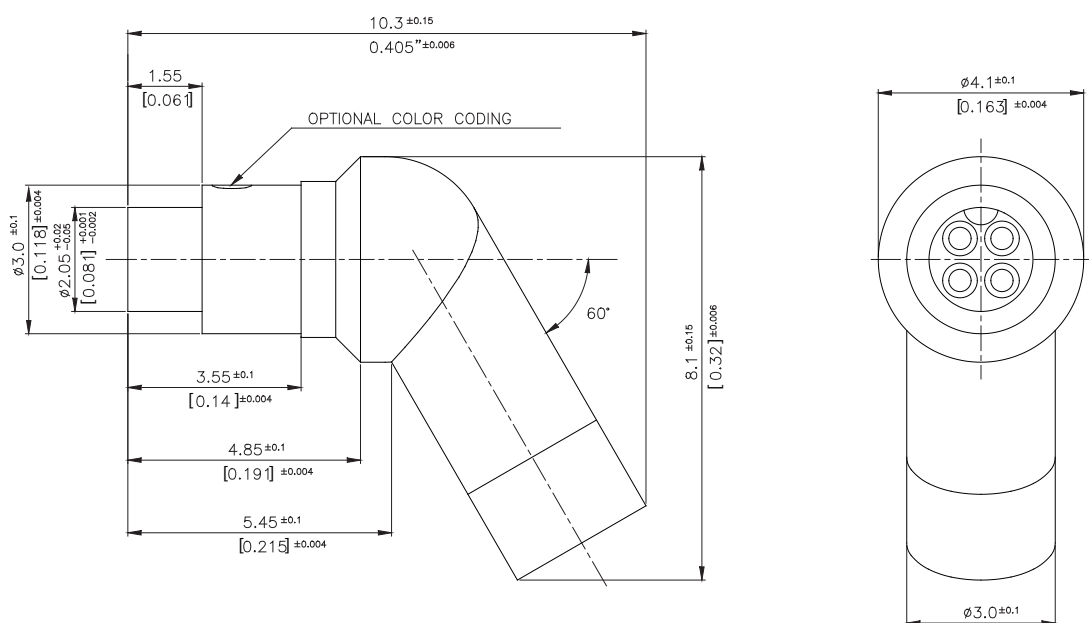
Storage temperature	25°C
Storage humidity	60% RH
Purpose is to protect from high humidity and keep at driest condition as possible	

6. Recommended Process Parameters

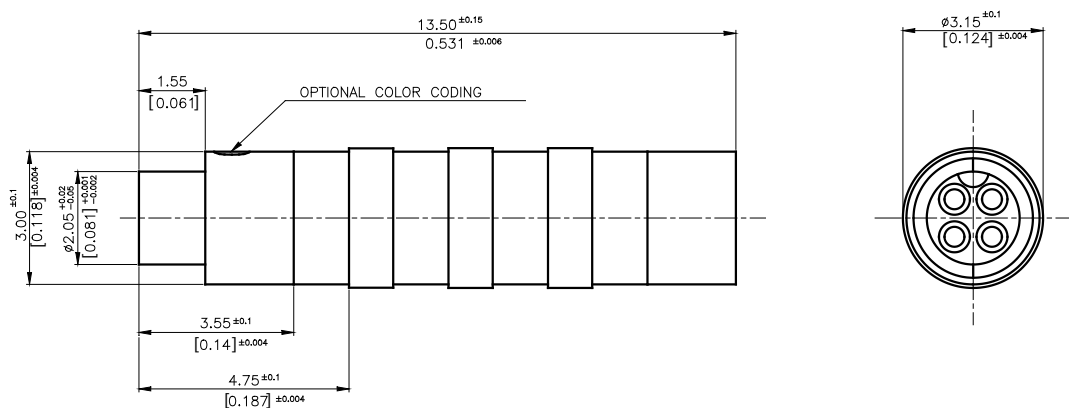
Cleaning	
Recommended cleaning solvents	2-Propanol (Isopropanol).
Ultrasonic cleaning may be applied for	Max. 60 s. Subsequent lubrication of the contact tubes with contact oil is required in order to maintain operational lifetime

7. Mechanical Dimensions

Angled plug



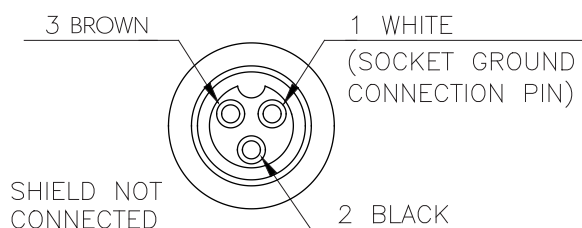
Straight plug



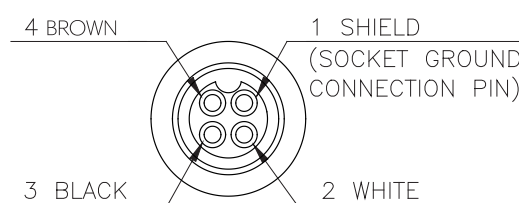
Note:

The standard measurement tolerance on the drawings is ± 0.05 mm/[0.002"]. Tolerances which differ from this value will be indicated on the drawings.

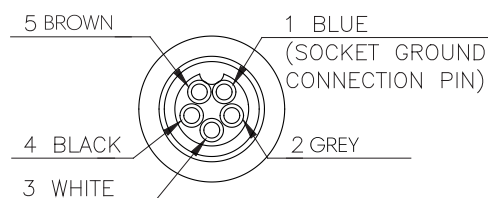
CS 43



CS 44

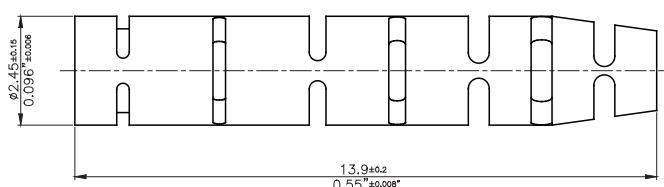


CS 45



Strain Relief

For \varnothing 1.4 - 1.5 mm [0.055 - 0.060] and tinsel cable



8. Plastic Colors

Please refer to color code no. 556 (blue), no. 571 (red), no. 526 (grey) and no. 120 (black) included in the Sonion 'Plastic Color Assortment' binder.

9. Color Coding

Please see colors for coding in the Sonion 'Plastic Color Assortment' binder or in the Product Overview. The position is indicated on the drawings in the section 'Mechanical Dimensions'.

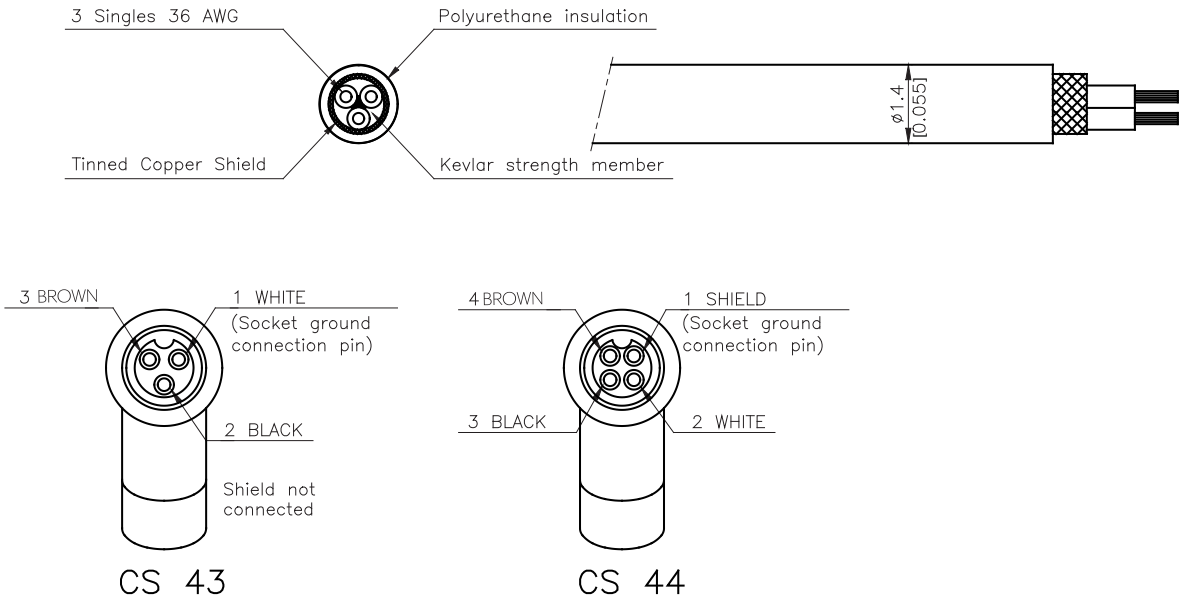
10. Cable Styles

No. 01

Three conductor shielded cable with strain relief.

Diameter Ø 1.4 mm [0.055"]

Colors available: Black and grey

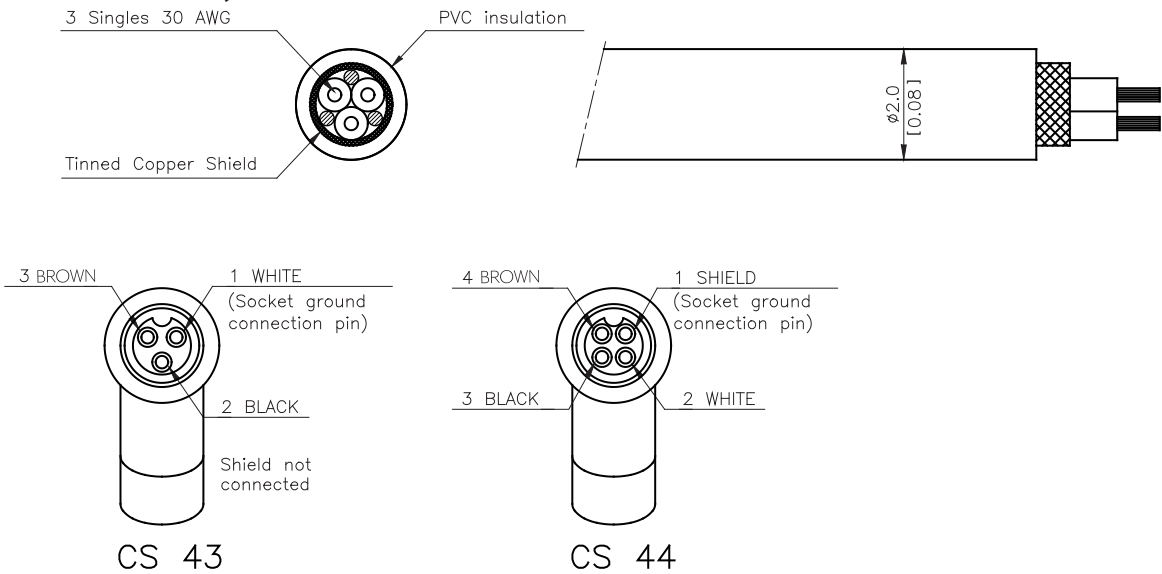


No. 02

Three conductor shielded cable

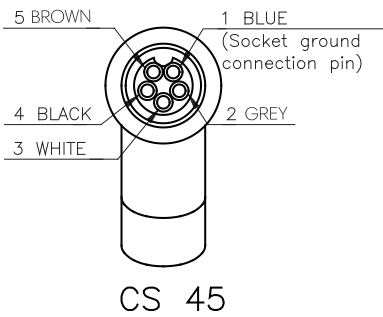
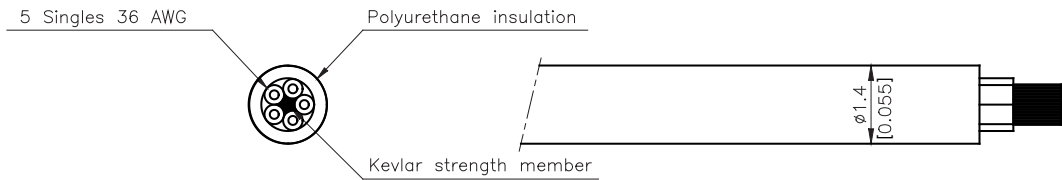
Diameter Ø 2.0 mm [0.08"]

Colors available: Grey



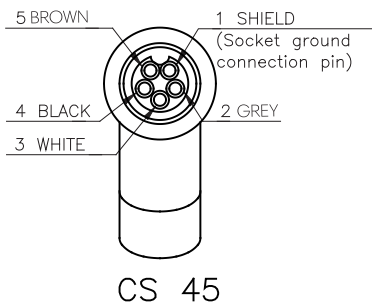
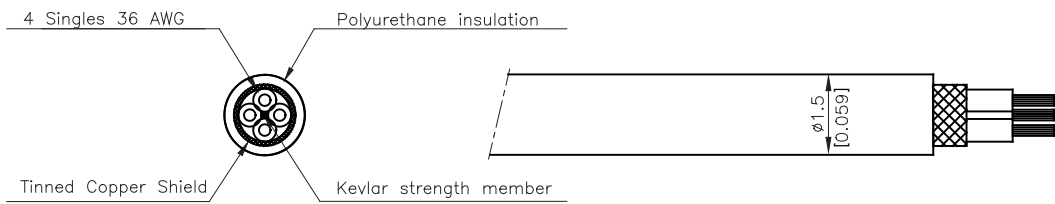
No. 03

Five conductor cable with strain relief
Diameter Ø 1.4 mm [0.055"]
Colors available: Black



No. 04

Four conductor shielded cable with strain relief
Diameter Ø 1.5 mm [0.06"]
Colors available: Black

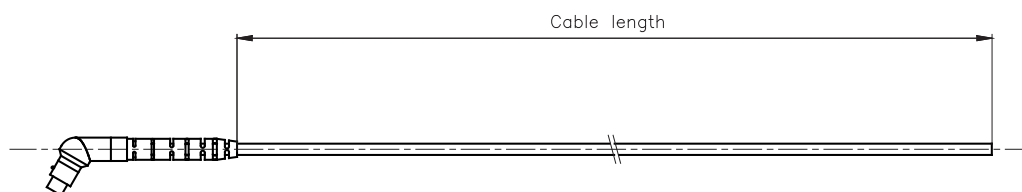


11. Cable Configuration

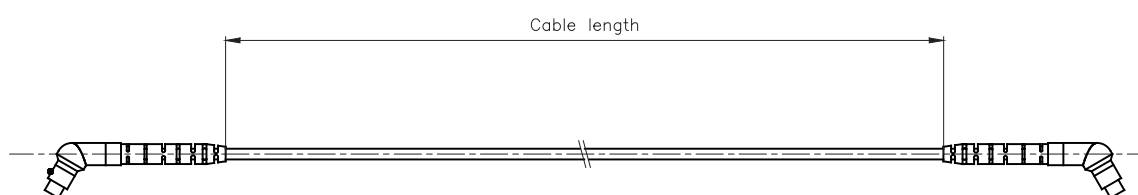
Cables can be delivered with plugs at each end of the cable (two plug version) or only at one end (one plug version). See drawings below.

The cable length "L" is specified as the total length of the cable between either the two plugs in a two plug version, or between the plug and the open end in a one plug version.

One Plug Version - Angled or Straight Plug



Two Plug Version - Angled or Straight Plug



12. Product Specification Form

Name

Company

Customer Part No.

Parameters	Look at Page	Enter your choices	Guidelines
Model	2		Please enter CS 43, 44 or 45 plug
Plug Type	6-7		Please enter angled or straight plug
Plastic Color	7		Please refer to color code no. 556 (blue), no. 571 (red), no. 526 (grey) and no. 520 (black)
Color Coding	7		Please see colors for coding included in the Sonion 'Plastic Color Assortment' binder
Cable Style	8-9		Cable style Cable color Strain relief, only on Ø 1.4 - 1.5 mm and tinsel cable
Strain Relief Color			Please enter transparent, blue, red or black. Color must match plug color. Transparent can be chosen with any plug color. Only for Ø1.4 - 1.5 mm cable
Cable Configuration	10		One plug version Two plug version
Cable Length	10		One plug version - length of cable Two plug version - length of cable between plugs