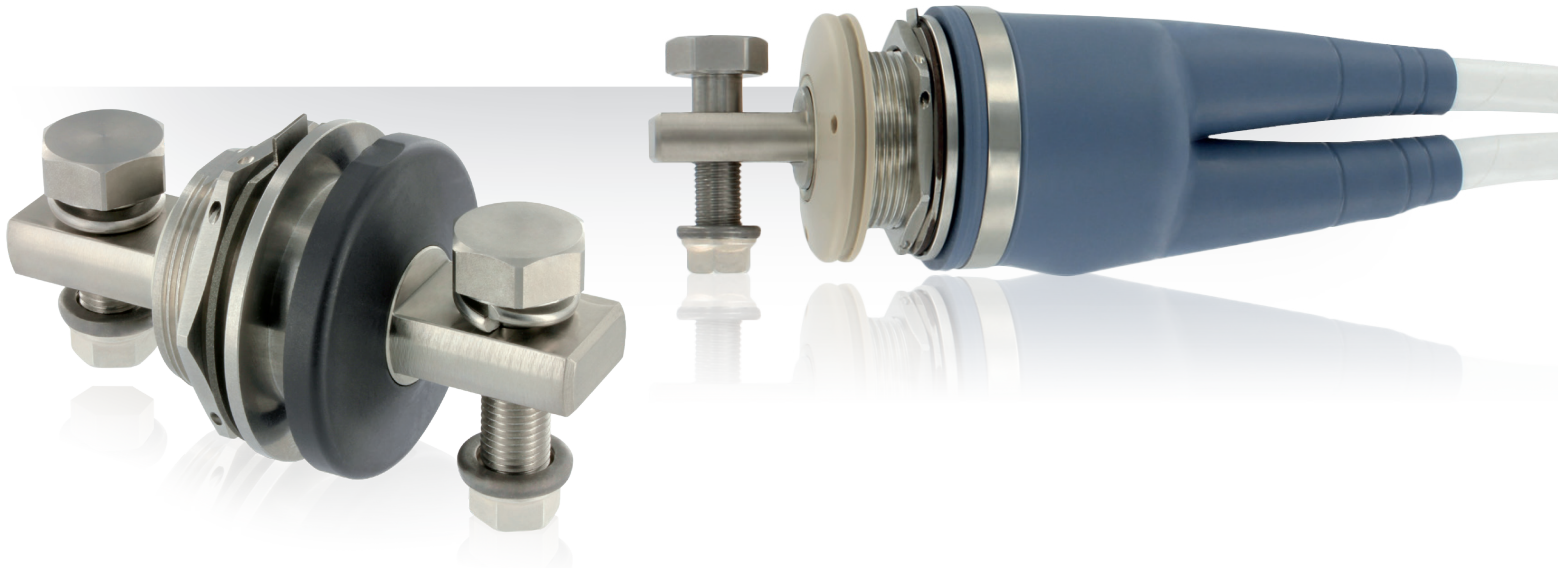


SN236 Series DO160 Qualified



Fireseal High Power Feedthrough

DO160 index G qualified solution ideal for Engines and APU.

Fire protective power feedthrough ■ Prevent from fire propagation thanks to its ceramic insulator resisting to 1100°C during 15min.

High temperatures resistant ■ Can operate up to 200°C continuous.

High power lug terminations ■ For aluminum or copper cables, up to 350A at 600 Vrms.
Specific « umbrella » design to prevent condensation to cause arching.

Pressure resistant ■ Maintain pressure boundaries.
Leak rate $< 10^{-6}$ atm.cm³/s at 1 bar pressure difference.

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://souriau.nt-rt.ru/> || sur@nt-rt.ru



Description

- Ideal for engine and APU applications
 - Fire protective power feedthrough
 - High temperatures resistant
 - High power lug terminations
 - Pressure resistant
- SN236HTFWC meets performances of the DO160 index G requirements.
- Exceptional water tightness
Feedthrough with protective boot completely immersed in water.
- Tailor-made design can be done to adapt your specific current, contacts orientation or temperature.

Technical features

Mechanical

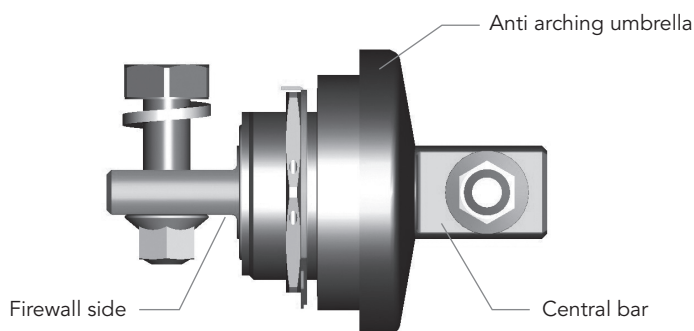
- **Shell:**
Stainless steel
- **Insulator and sleeve:**
Alumina and Peek 50% glass fiber
- **Central bar contact:**
Nickel
- **Tightening torque of screws:**
1.4 M.DaN
- **Terminal lugs:**
AWG #0 , #00, #000

Climatic

- **Operating Temperature:**
-55°C / +200°C
- **Fire resistance:**
1100°C during 15 minutes without flame penetration
- **Salt spray:**
48 h
- **Sealing:**
Leak rate < 10^{-6} atm.cm³/s with Delta P=1bar (helium test)
- **Conformity:**
SN236HTFWC meets performances of the DO160 Index G requirements

Electrical

- **Insulation resistance**
Normal conditions: IR > 500MΩ - 500V DC
High Operational T°: IR > 200MΩ - 500V DC
Humidity: IR > 50MΩ - 500V DC
Fireproof: IR > 100kΩ - 500V DC
- **Dielectric Withstanding Voltage**
DWV under 4.2 kVDC, leakage current < 1μA
- **Working voltage and current**
Normal use: U = 115V RMS
U_{Max} = 600V RMS
I_n = 350A
I_{peak} = 1043A during 5 sec. at beginning
- **Frequency**
From 360 to 800 Hz

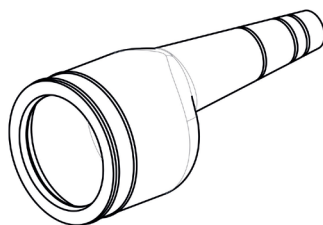


Ordering information

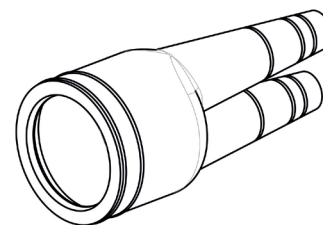
Part Number	Description
SN236HTFWC	Connector
SN236PB10	Protective boot for 1 cable
SN236PB20	Protective boot for 2 cables
SN236PBA	Protective boots adaptor
SN236PBAT	Protective boots adaptor tool

SN236PB10

Protective boot for 1 cable


SN236PB20

Protective boot for 2 cables

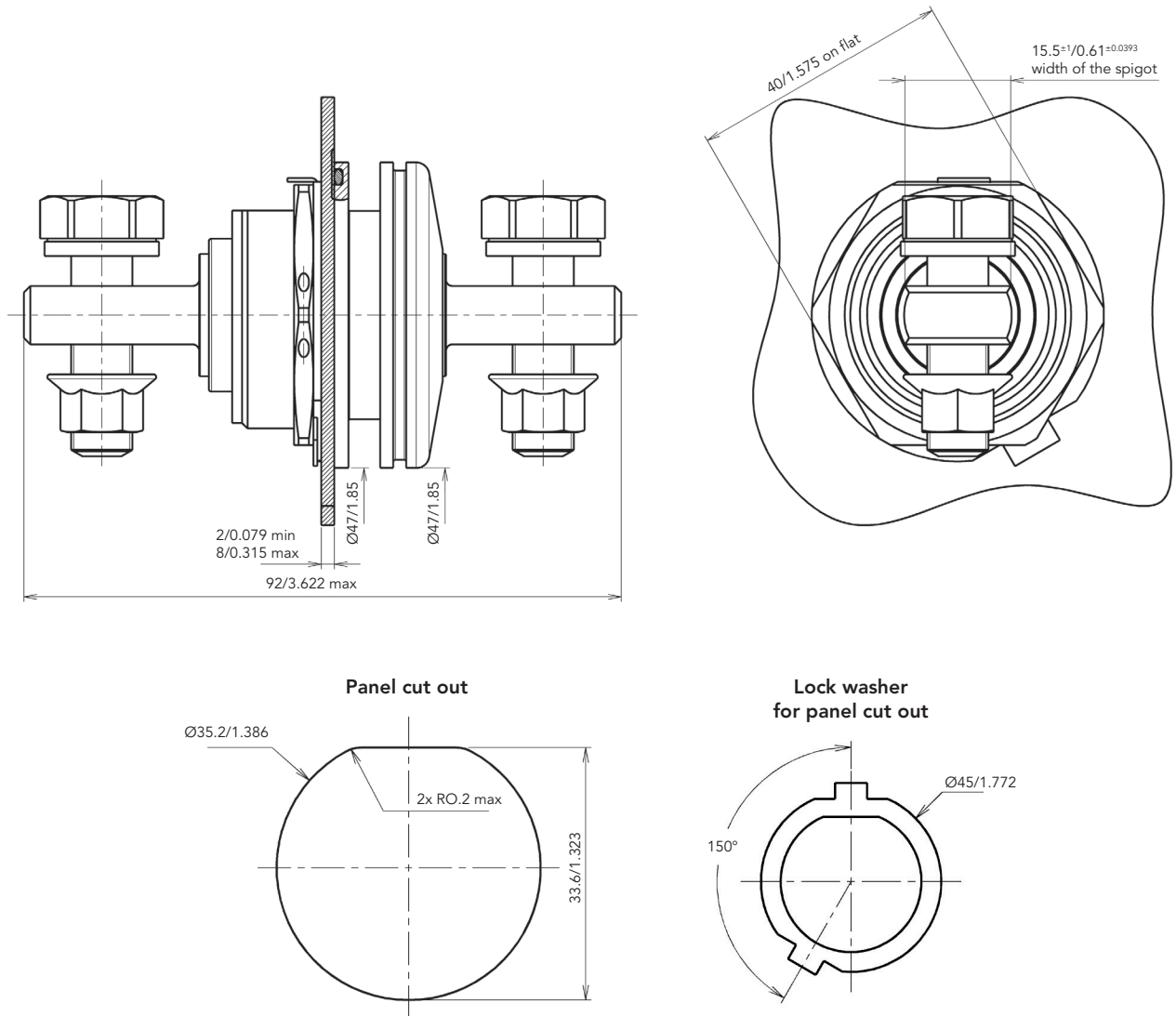


DO160 Index G requirements

Characteristics	Level
Waterproofness	DO160 - Section 10, equipment category R: Spray Proof
Thermal shock and cycle	DO160 - Section 5, equipment category A: Temperature variation from -55°C (low operational temperature) to +148°C (high operational temperature) with slope of 10°C/min maxi
Operational shock and crash safety	DO160 - Section 7, equipment category B and E: 18 shocks saw-tooth wave shape (6 orientations x3 shocks) to 6g/11ms (category B) and to 6g/20ms (category E). - Impulse test: 6 shocks saw-tooth wave shape (6 orientations x1 shock) to 20g/11ms (category B) and to 20g/20ms (category E). - Sustained test: 6 constant acceleration test (6 orientations) of 3s each to 20g max per orientation.
Vibrations	DO160 - Section 8, equipment category S(D), R(D&D1) and H(P): - Category S: 1 hour/axis, sine or random at performance level. 10-2000 Hz, 8.92g - Category R: Sine of 3 hours/axis less 30min/dwell (max 4 dwells) or random at performance level (minimum of 10 minutes) and 3 hours endurance level (repeat in all 3 axes). 10-2000 Hz, 12.61g - Category H: High g / low f, sine sweep each axis. 10-250 Hz, ±10g
Temperature and altitude	DO160 - Section 4, equipment category D2: - Ground survival low temperature test and short-time operating low temperature test: -60°C / 3h (not operating) then -60°C / 1h (operating) - Operating low temperature test : -55°C / 2h (operating) - Ground survival high temperature test and short-time operating high temperature test: +200°C / 3h (not operating) then +148°C / 1h (operating) - Operating high temperature test: +148°C / 2h (operating) - Altitude test: 50kft / 15.2km / 116mbar / 2h (operating)
Icing	DO160 - Section 24, equipment category A: 3 cycles from -55°C / HR ambient to +30°C / ambient pressure / 95% HR and return, to create frost on the piece, then checking good equipment operation at -10°C.
Humidity	DO160 - Section 6, equipment category B: 10 cycles of 24h, equipment non operational
Fireproof	DO160 - Section 26, equipment category A
Flammability	DO160 - Section 26, equipment category C
Salt fog	DO160 - Section 14, equipment category T
Fluids susceptibility	DO160 - Section 11, equipment category F: The liquids used for the tests are: fuels, hydraulic fluids, lubricating oils, solvents and cleaning fluids, de-icing fluids, insecticides
Sand and dust	DO160 - Section 12, equipment category D and S
Fungus resistance	DO160 - Section 13, equipment category F: Fungus application during 28 days
Explosive atmosphere	DO160 - Section 9, equipment category H: No feedthrough surfaces have to reach a temperature of 204°C during powering with 350A current.

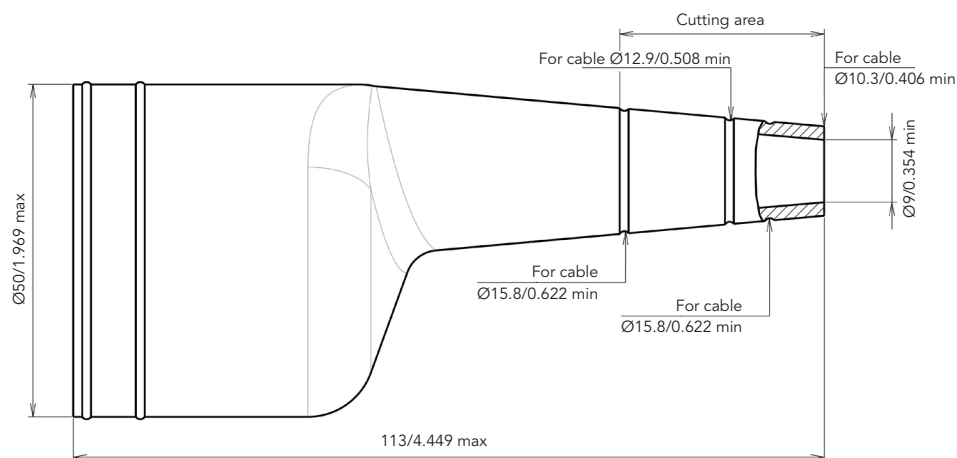
Dimensions

Connector

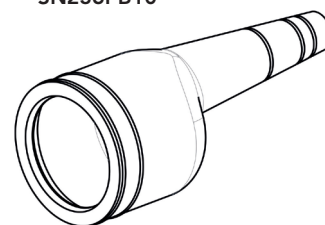


Note: All dimensions are in millimeters and inches (mm/inch).
Dimensions are for information only. Please consult us for customer drawings.

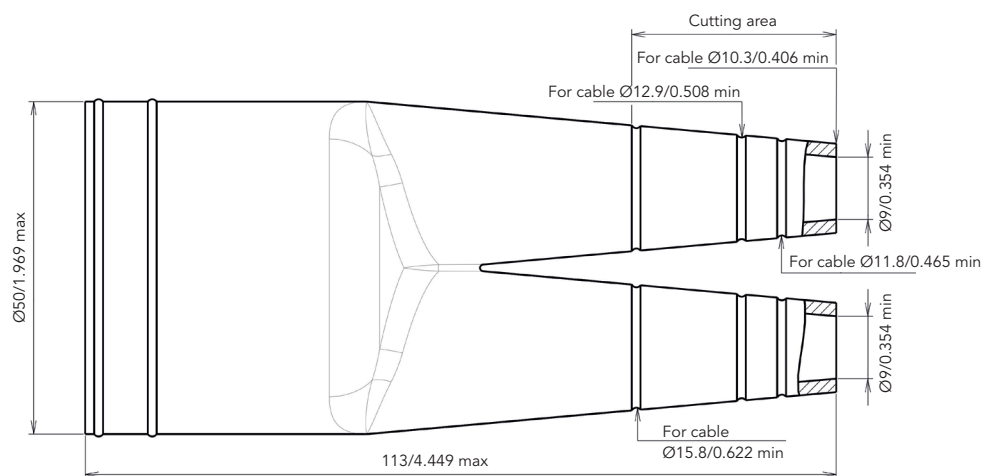
Protective boot for 1 cable



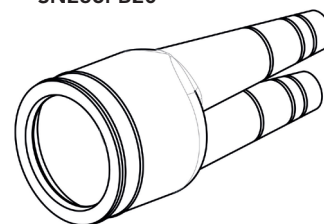
Part Number:
SN236PB10



Protective boot for 2 cables



Part Number:
SN236PB20



Note: All dimensions are in millimeters and inches (mm/inch).

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Россия +7(495)268-04-70

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новый Уренгой (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Казахстан +7(7172)727-132

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Киргизия +996(312)96-26-47

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93