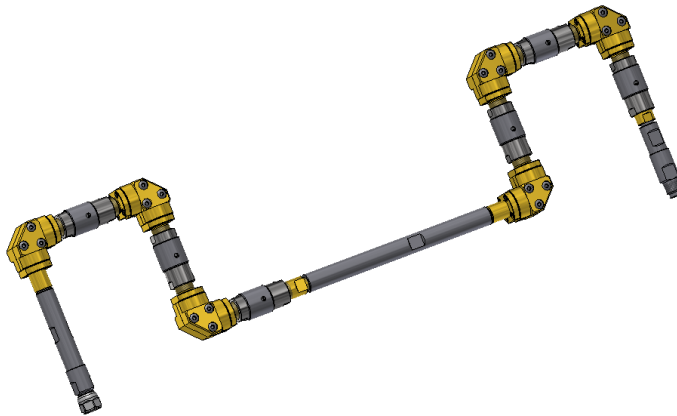


Articulated Line || BN 533652Cxxxx



Version plug / socket

Versions:

- plug / plug
- plug / socket
- socket / socket

Radio frequency characteristics of articulated line

Interface type	1.85 mm per IEEE Std. 287
Frequency range	DC to 67 GHz ¹⁾
Impedance	50 Ω
Return loss, min.	25 dB @ DC to 4 GHz 20 dB @ 4 to 6 GHz 15 dB @ 6 to 18 GHz 12 dB @ 18 to 26.5 GHz 10 dB @ 26.5 to 40 GHz 8 dB @ 40 to 67 GHz
Phase stability of S ₁₁ and/or S ₂₂ (at any movement)	± 1.5 deg. @ DC to 18 GHz ± 2.0 deg. @ 18 to 26.5 GHz ± 2.5 deg. @ 26.5 to 40 GHz ± 3.5 deg. @ 40 to 50 GHz ± 5.0 deg. @ 50 to 67 GHz
Amplitude stability of S ₁₁ and/or S ₂₂ (at any movement)	± 0.05 dB @ DC to 26.5 GHz ± 0.10 dB @ 26.5 to 40 GHz ± 0.20 dB @ 40 to 50 GHz ± 0.50 dB @ 50 to 67 GHz
Insertion loss, max.	1 dB x √f (GHz) @ DC to 67 GHz
Power rating, max.	2.5 W

1) The articulated line can be used up to 70 GHz with reduced performance. Resonances may occur between 68 GHz and 70 GHz

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Radio frequency characteristics of port saver

Interface type	1.85 mm plug / socket per IEEE Std. 287
Frequency range	DC to 67 GHz ²⁾
Impedance	50 Ω
Return loss, min.	32 dB @ DC to 4 GHz 30 dB @ 4 to 26.5 GHz 25 dB @ 26.5 to 40 GHz 23 dB @ 40 to 67 GHz

2) The port saver can be used up to 70 GHz with reduced performance. Resonances may occur between 68 GHz and 70 GHz

Mechanical characteristics

Center conductor material / surface finish	CuBe age hardened, CuBe, copper alloy / gold-plated
Outer conductor material / surface finish	CuBe age hardened, CuBe, copper alloy / gold-plated
Insulation	PEI, PS
Other metallic parts / surface finish	CuBe / CuSnZn-plated copper alloy / gold-plated copper-nickel alloy stainless steel
Typical flex cycles	400000
Weight articulated line, approx.	0.3 kg
Weight port saver, approx.	0.01 kg

Environmental conditions

Temperature range	-55 to +85°C
Relative humidity, max.	95% (non condensing)

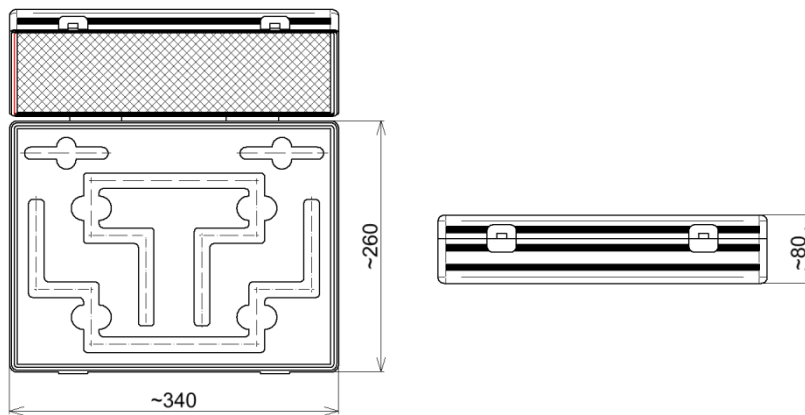
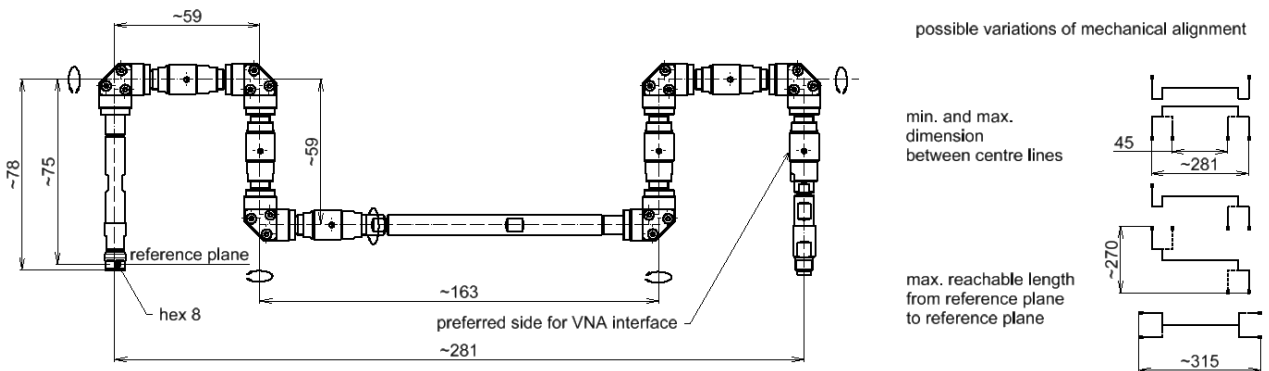
Scope of delivery and accessories

Scope of delivery	storage case, data sheet, handling instructions available configurations see Table 1)
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Outline (all dimensions in millimeter)



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Available configurations:

Table 1)

Connector size	Line 1 gender combination	Line 2 gender combination	Port Saver 1 gender combination	Port Saver 2 gender combination	Order number
1.85 mm	(m)/(m)	-	(m)/(f)	-	533652C1010
1.85 mm	(m)/(m)	(m)/(m)	(m)/(f)	(m)/(f)	533652C1111
1.85 mm	(m)/(f)	-	(m)/(f)	-	533652C2010
1.85 mm	(m)/(f)	(m)/(f)	(m)/(f)	(m)/(f)	533652C2211
1.85 mm	(f)/(f)	-	(m)/(f)	-	533652C3010
1.85 mm	(f)/(f)	(f)/(f)	(m)/(f)	(m)/(f)	533652C3311