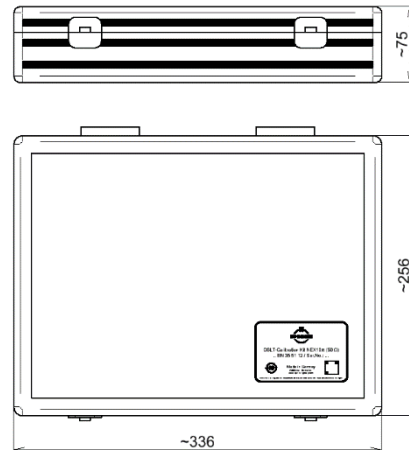


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all dimensions in millimeter

Radio frequency characteristics

Interface type		NEX10® plug and socket per IEC 61169-71	
Frequency range		DC to 20 GHz	
THROUGH	Return loss, min.	34 dB @ DC to 2 GHz 28 dB @ 2 to 6 GHz 24 dB @ 6 to 12 GHz 20 dB @ 12 to 20 GHz	
	Insertion loss, max.	$0.07 \text{ dB} \times \sqrt{f \text{ (GHz)}}$	
OPEN ¹⁾	Phase deviation, max.	2.0 deg. @ DC to 4 GHz 2.5 deg. @ 4 to 8 GHz 3.5 deg. @ 8 to 12 GHz 4.5 deg. @ 12 to 20 GHz	
	Offset delay	see calibration data	
SHORT ¹⁾	Phase deviation, max.	2.0 deg. @ DC to 4 GHz 2.5 deg. @ 4 to 8 GHz 3.5 deg. @ 8 to 12 GHz 4.5 deg. @ 12 to 20 GHz	
	Offset delay	see calibration data	
LOAD	DC-resistance	$50 \Omega \pm 0.5 \Omega$	
	Return loss, min.	40 dB @ DC to 2 GHz 34 dB @ 2 to 6 GHz 28 dB @ 6 to 12 GHz 25 dB @ 12 to 20 GHz	
		Power rating, max.	0.5 W

¹⁾ The specifications for the opens and shorts are given as allowed deviation from the nominal model as defined in the calibration data.

Note: NEX10 is a registered trademark of HUBER+SUHNER, Radiall and ROSENBERGER

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Mechanical characteristics

Center conductor material / surface finish	CuBe age hardened; copper alloy / gold-plated
Outer conductor material / surface finish	copper alloy, CuBe / gold-plated
Insulation	LCP, cross linked polystyrene, PTFE
Other metallic parts / surface finish	copper alloy / nickel-plated stainless steel
Weight, approx.	1.6 kg
Marking	laser engraving

Environmental conditions

Operation	
Ambient temperature range	+18 to +28°C ²⁾
Storage	
Ambient temperature range	-40 to +70°C (in line with EN 60068-2-1 and EN 60068-2-2)

²⁾ Temperature range within all components maintain conformance to their specification.

Scope of delivery

Description	Qty per kit	Part No	Calibration option
NEX10® Open circuit plug	1	BN 355103R000	Factory calibration
NEX10® Open circuit socket	1	BN 355104R000	Factory calibration
NEX10® Short circuit plug	1	BN 355105R000	Factory calibration
NEX10® Short circuit socket	1	BN 355106R000	Factory calibration
NEX10® Load plug	1	BN 355107R000	Factory calibration
NEX10® Load socket	1	BN 355108R000	Factory calibration
NEX10® Through plug / plug	1	BN 355109R000	Factory calibration
NEX10® Through socket / socket	1	BN 355110R000	Factory calibration
Torque Wrench 11 mm / 1.5 N·m	1	BN 238743C0001	Factory calibration
Certificate of calibration incl. calibration data			
USB flash drive including certificate of calibration incl. calibration data data sheet			
Product manual calibration kit		M36544	
Handling instruction torque wrench		M31071	
Aluminium storage case			

Accessories

NEX10® Through plug / socket	BN 355111R000
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Calibration data

Calibration data in formats for the common VNAs are included in the kit. It includes individual calibration coefficients for every kit to achieve the best possible performance.

Re-Calibration

The suggested initial interval for recalibration is 12 months or 500 mating's, whichever comes first. The actual need for recalibration depends on the use and the maintenance of the kit. The recalibration interval should begin with the day of initial use after recalibration.