

DOCSIS 4.0
R E A D Y



Outdoor RF passives

40-SERIES SPLITTERS AND TAPS

The 40-series Splitters, Taps, and Power Inserter are high-performance passives designed for splitting signal and power in coaxial branch and distribution networks. The series is packed with advanced features and is mission-ready for 1800 MHz operation.

40-series features

- Frequency range up to 1.8 GHz, Docsis 4.0 compliant
- High performance for use in branch and distribution networks
- Nominal current 12A @ 90VAC
- 5/8" or PG11 connections available
- Optional test probes are available to support advanced testing. The product series has been designed with dedicated test points on each connection port for straightforward extraction of test signals.

One of Teleste's unique and award winning superior performance passives designed for easy installation and reliability.

TELESTE

OUTDOOR RF PASSIVES / 40-SERIES

ELECTRICAL SPECIFICATIONS - SPLITTERS								
2-way 4OSP402			3-way 4OSP603		3-way unbalanced 4OSP803		4-way 4OSP804	
Insertion Loss (dB, Max.) - In to Out								
Frequency (MHz)	Typ.	QA	Typ.	QA	Typ./QA	Typ./QA	Typ.	QA
12 - 47	3.8	4.3	6.3	7.2	3.8 / 4.3	7.4 / 8.1	7.4	8.1
47 - 470	3.8	4.3	6.6	7.2	3.8 / 4.5	7.6 / 8.3	7.6	8.3
470 - 862	4.3	4.8	7.0	7.5	4.3 / 4.8	8.1 / 8.6	8.1	8.6
862 - 1006	4.6	5.1	7.3	8.0	4.6 / 5.5	8.3 / 9.2	8.3	9.2
1006 - 1218	4.9	5.5	8.1	8.6	4.9 / 5.5	9.1 / 9.6	9.1	9.6
1218 - 1500	5.2	5.8	8.6	9.0	5.2 / 5.8	9.5 / 10.5	9.6	10.5
1500 - 1800	5.5	6.3	8.6	9.3	5.8 / 6.5	10.5 / 11.0	10.5	11.5
Isolation (dB, Min.) - Out to Out								
12 - 47	26.0		26.0		26.0		26.0	
47 - 470	26.0		22.0		22.0		22.0	
470 - 862	22.0		20.0		20.0		20.0	
862 - 1006	20.0		20.0		20.0		20.0	
1006 - 1218	20.0		20.0		20.0		20.0	
1218 - 1500	20.0		17.0		17.0		17.0	
1500 - 1800	17.0		15.0		15.0		15.0	
Return loss (db, Min.) - All ports								
12 – 100	17.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾	
100 - 1800	18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾	
ELECTRICAL SPECIFICATIONS - SPLITTERS WITH AC POWER INSERT								
2-way 4OSP402-xxPI			3-way 4OSP603-xxPI		3-way unbalanced 4OSP803-xxPI			
Insertion Loss (dB, Max.) - In to Out								
Frequency (MHz)	Typ.	QA	Typ.	QA	Typ./QA	Typ./QA	Typ./QA	Typ./QA
12 - 47	3.8	4.3	6.3	7.2	3.8 / 4.3	7.4 / 8.1	7.4 / 8.1	7.4 / 8.1
47 - 470	3.8	4.3	6.6	7.2	3.8 / 4.5	7.6 / 8.3	7.6 / 8.3	7.6 / 8.3
470 - 862	4.3	4.8	7.0	7.5	4.3 / 4.8	8.1 / 8.6	8.1 / 8.6	8.1 / 8.6
862 - 1006	4.6	5.1	7.3	8.0	4.6 / 5.5	8.3 / 9.2	8.3 / 9.2	8.3 / 9.2
1006 - 1218	4.9	5.5	8.1	8.6	4.9 / 5.5	9.1 / 9.6	9.1 / 9.6	9.1 / 9.6
1218 - 1500	5.2	5.8	8.6	9.0	5.2 / 5.8	9.5 / 10.5	9.5 / 10.5	9.5 / 10.5
1500 - 1800	5.5	6.3	8.6	9.3	5.8 / 6.5	10.5 / 11.5	10.5 / 11.5	10.5 / 11.5
Isolation (dB, Min.) - Out to Out								
12 - 47	26.0		26.0		26.0		26.0	
47 - 470	26.0		22.0		22.0		22.0	
470 - 862	22.0		20.0		20.0		20.0	
862 - 1006	20.0		20.0		20.0		20.0	
1006 - 1218	20.0		20.0		20.0		20.0	
1218 - 1500	20.0		17.0		17.0		17.0	
1500 - 1800	17.0		15.0		15.0		15.0	
Isolation (dB, Min.) - AC/IN to Out								
12 - 47	60.0		60.0		60.0		60.0	
47 - 470	60.0		60.0		60.0		60.0	
470 - 862	60.0		60.0		60.0		60.0	
862 - 1006	50.0		50.0		50.0		50.0	
1006 - 1218	50.0		50.0		50.0		50.0	
1218 - 1800	35.0		35.0		35.0		35.0	
Return loss (db, Min.) - All ports								
12 – 100	17.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾	
100 - 1800	18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾	

OUTDOOR RF PASSIVES / 40-SERIES

ELECTRICAL SPECIFICATIONS - TAPS - FIXED MODELS													
		1-way, 7dB 40DC071		1-way, 10dB 40DC101		1-way, 13dB 40DC131		1-way, 17dB 40DC171		1-way, 22dB 40DC221		2-way, 13dB 40DC132	
Insertion Loss (dB, Max.) - In to Out													
Frequency (MHz)	Typ.	QA	Typ.	QA	Typ.	QA	Typ.	QA	Typ.	QA	Typ.	QA	
12 - 47	3.3	3.7	1.9	2.3	1.1	2.0	1.3	1.7	1.3	1.7	2.8	3.1	
47 - 470	2.5	3.1	1.8	2.3	1.0	1.9	1.1	1.7	1.1	1.7	2.8	3.1	
470 - 862	2.8	3.7	2.0	2.7	1.5	2.2	1.1	1.7	1.1	1.7	3.2	3.7	
862 - 1006	3.0	4.0	2.3	3.0	1.8	2.5	1.3	2.0	1.3	2.0	3.8	4.3	
1006 - 1218	3.8	4.5	2.6	3.8	1.8	3.0	1.6	2.2	1.6	2.2	4.5	5.0	
1218 - 1800	4.0	5.0	3.8	4.2	3.3	3.7	2.2	3.2	2.2	3.2	5.2	6.0	
Insertion Loss (dB, Max.) - In to Tap													
12 - 1006	8.3 ± 1.0		10.3 ± 1.0		13.3 ± 1.0		16.8 ± 1.0		21.7 ± 1.0		13.0 ± 1.3		
1006 - 1218	8.3 ± 1.2		10.3 ± 1.2		13.3 ± 1.2		16.6 ± 1.2		21.7 ± 1.2		13.0 ± 1.5		
1218 - 1800	8.5 ± 1.5		10.5 ± 1.5		13.5 ± 1.5		16.6 ± 1.5		21.7 ± 1.5		13.0 ± 1.6		
Isolation (dB, Min.) - Out to Tap													
12 - 47	20.0		22.0		27.0		27.0		27.0		26.0		
47 - 470	26.0		26.0		29.0		29.0		29.0		26.0		
470 - 862	22.0		22.0		26.0		27.0		27.0		22.0		
862 - 1006	20.0		20.0		24.0		24.0		24.0		20.0		
1006 - 1218	20.0		20.0		22.0		22.0		22.0		20.0		
1218 - 1800	20.0		20.0		20.0		20.0		20.0		20.0		
Isolation (dB, Min.) - Tap to Tap													
12 - 47			-		-		-		-		35.0		
47 - 470			-		-		-		-		35.0		
470 - 862			-		-		-		-		35.0		
862 - 1006			-		-		-		-		32.0		
1006 - 1218			-		-		-		-		30.0		
1218 - 1800			-		-		-		-		25.0		
Return loss (dB, Min.) - All ports													
12 - 100			17.0 ⁽¹⁾		17.0 ⁽¹⁾		17.0 ⁽¹⁾		17.0 ⁽¹⁾		18.0 ⁽¹⁾		
100 - 1800			18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		

PRODUCT IMAGE

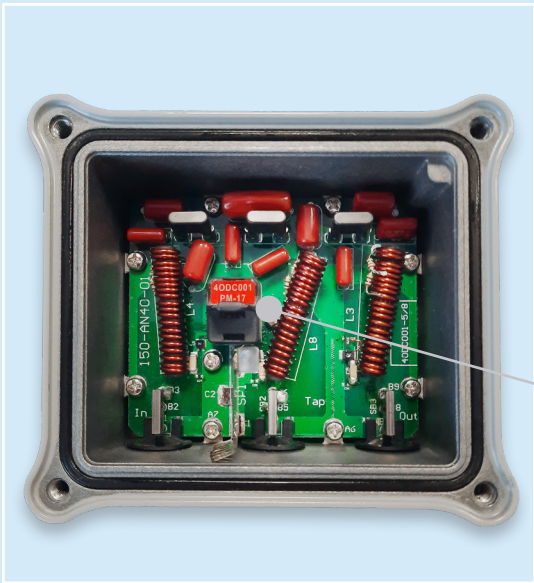


The 40 Series Fixed Taps are high-performance passive devices available in a range of tap value configurations, delivering flexible signal distribution tailored to modern HFC network requirements up to 1.8 GHz.

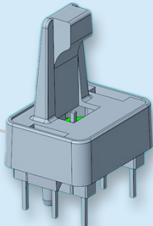
OUTDOOR RF PASSIVES / 40-SERIES

ELECTRICAL SPECIFICATIONS - 40DC001-xx 1-WAY TAPS + PLUG-IN MODULES											
	7dB		10dB		13dB		17dB		22dB		
	40DC001-xx-PM-07		40DC001-xx-PM-10		40DC001-xx-PM-13		40DC001-xx-PM-17		40DC001-xx-PM-22		
Insertion Loss (dB, Max.) - In to Out											
Frequency (MHz)	Typ.	QA	Typ.	QA	Typ.	QA	Typ.	QA	Typ.	QA	
12 - 47	3.3	3.7	1.9	2.3	1.1	2.0	1.3	1.7	1.3	1.7	
47 - 470	2.5	3.1	1.8	2.3	1.0	1.9	1.1	1.7	1.1	1.7	
470 - 862	2.8	3.7	2.0	2.7	1.5	2.2	1.1	1.7	1.1	1.7	
862 - 1006	3.0	4.0	2.3	3.0	1.8	2.5	1.3	2.1	1.3	2.1	
1006 - 1218	3.8	4.5	2.6	3.8	1.8	3.0	1.6	2.3	1.6	2.3	
1218 - 1800	4.0	5.0	3.8	4.4	3.3	4.0	2.2	3.4	2.2	3.4	
Insertion Loss (dB, Max.) - In to Tap											
12 - 1006	8.3 ± 1.0		10.3 ± 1.0		13.3 ± 1.0		16.8 ± 1.0		21.7 ± 1.0		
1006 - 1218	8.3 ± 1.2		10.3 ± 1.2		13.5 ± 1.2		16.8 ± 1.2		21.7 ± 1.2		
1218 - 1800	8.5 ± 1.5		10.8 ± 1.5		13.8 ± 1.5		17.1 ± 1.5		21.7 ± 1.5		
Isolation (dB, Min.) - Out to Tap											
12 - 47	20.0		22.0		27.0		27.0		27.0		
47 - 470	26.0		26.0		29.0		29.0		29.0		
470 - 862	22.0		22.0		25.0		25.0		27.0		
862 - 1006	20.0		20.0		22.0		24.0		24.0		
1006 - 1218	20.0		20.0		20.0		22.0		22.0		
1218 - 1800	20.0		20.0		20.0		20.0		20.0		
Return loss (dB, Min.) - All ports											
12 - 100	17.0 ⁽¹⁾		17.0 ⁽¹⁾		17.0 ⁽¹⁾		17.0 ⁽¹⁾		17.0 ⁽¹⁾		
100 - 1800	18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		

PRODUCT IMAGE



Designed for adaptability, our 1-Way Taps feature plug-in modules with selectable dB values — delivering customizable signal configurations for precise network tuning and simplified inventory management.



OUTDOOR RF PASSIVES / 40-SERIES

ELECTRICAL SPECIFICATIONS - AC POWER INSERTER		
40AC15A		
Insertion Loss (dB, Max.) - In to Out		
Frequency (MHz)	Typ.	QA
12 - 47	0.4	0.7
47 - 470	0.5	0.8
470 - 862	0.8	1.1
862 - 1006	0.9	1.3
1006 - 1218	1.2	1.5
1218 - 1500	1.4	1.7
1500 - 1800	1.7	2.0
Isolation (dB, Min.) - AC In to RF Out		
12 - 47	60.0	
47 - 470	60.0	
470 - 862	60.0	
862 - 1006	50.0	
1006 - 1218	50.0	
1218 - 1800	35.0	
Return loss (db, Min.) - All ports		
12 - 100	17.0 ⁽¹⁾	
100 - 1800	18.0 ⁽¹⁾	
PRODUCT IMAGES		



The 40 Power Inserter is purpose-built to support remote power feeding up to 15 A, delivering reliable energy distribution to active components across HFC networks.

Splitters in our 40 Series just received an upgrade — now available with integrated AC power insert for enhanced functionality and streamlined power distribution.



OUTDOOR RF PASSIVES / 40-SERIES

GENERAL SPECIFICATIONS - ALL MODELS OF 40-SERIES					
Nominal Impedance		75 Ohm		Frequency Range (MHz)	
Operating Temperature Range		-40 C° to +65 C°		Output Connectors	
Protection		IP68/15 PSI		Surge Immunity Test ⁽²⁾ Each port (Min.)	
Hum nominal current 8A@90VAC		Hum nominal current 10A@90VAC		Hum nominal current 12A@90VAC	
12 - 60		60 dBc		12 - 60	
60 - 1006		70 dBc		60 - 1006	
1006 – 1218		70 dBc		1006 – 1218	
1218 - 1800		60 dBc		1218 - 1800	
Electromagnetic Compatibility (dB, Min.)		5 - 300		Intermodulation Distortion ⁽³⁾ (dBc, Min.)	
300 - 470		95.0		Before surge	
470 - 950		90.0		After 1kV surge	
Class A+ (= Class A +10dB)		85.0		118.0	
		65.0		115.0	
Nominal Current		IN/AC port OUT port		15A @ 90 VAC 12A @ 90 VAC	
Dimensions (h x w x d)					
3-port mechanics		125 x 106 x 58.5 mm			
5-port mechanics		189 x 110 x 58.5 mm			
Weight and Housing Type					
Model	Weight (kg)	Housing type	Remarks		
4OAC15A-xx	0.373	3-port	-		
4OAC15A-5/8-3512F	0.468	3-port	Includes 3.5-12F adapters		
4ODC071, 101, 131, 171, 221	0.368	3-port	-		
4ODC001-xx	0.368	3-port	-		
4ODC001-xx-PM-xx	0.0025	-	Plug-in modules		
4ODC132-xx	0.368	5-port	-		
4OSP402-xx	0.362	3-port	-		
4OSP402-5/8-3512F	0.461	3-port	Includes 3.5-12F adapters		
4OSP603-xx	0.520	5-port	-		
4OSP603-5/8-3512F	0.639	5-port	Includes 3.5-12F adapters		
4OSP803-xx	0.533	5-port	-		
4OSP803-5/8-3512F	0.640	5-port	Includes 3.5-12F adapters		
4OSP804-xx	0.545	5-port	-		
4OSP804-5/8-3512F	0.696	5-port	Includes 3.5-12F adapters		
4OSP402-xxPI	0.520	5-port	4 ports utilized in a 5-port housing		
4OSP603-xxPI	0.550	5-port	-		
4OSP803-xxPI	0.550	5-port	-		
Note: The weight is identical for models available with either a 5/8" or PG11 connector configuration.					
NOTES					
(1) At F≥40 MHz -1.5 dB per octave, with a minimum of 14 dB					
(2) 1 kV, 1,2/50 μs Surge voltage according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor of each port					
(3) Two carriers (60 & 65 MHz), applied to each output port, @ 120 dBμV					
- No surge					
- Measured after 1kV (1.2/50μS) pulses have been applied to each port					

OUTDOOR RF PASSIVES / 40-SERIES

ORDERING INFORMATION

40 SERIES SPLITTERS

4OSP402-xx	2-way splitter, 1.8 GHz
4OSP603-xx	3-way splitter, 1.8 GHz
4OSP803-xx	3-way splitter unbalanced, 1.8 GHz
4OSP804-xx	4-way splitter, 1.8 GHz
4OSP402-5/8-3512F	2-way splitter, 1.8 GHz, including 3.5-12F adapters on all ports
4OSP603-5/8-3512F	3-way splitter, 1.8 GHz, including 3.5-12F adapters on all ports
4OSP803-5/8-3512F	3-way splitter unbalanced, 1.8 GHz, including 3.5-12F adapters on all ports
4OSP804-5/8-3512F	4-way splitter, 1.8 GHz, including 3.5-12F adapters on all ports

xx = 5/8 or PG11 connector configuration

40 SERIES SPLITTERS WITH AC POWER INSERT

4OSP402-xxPI	2-way splitter, 1.8 GHz
4OSP603-xxPI	3-way splitter, 1.8 GHz
4OSP803-xxPI	3-way splitter unbalanced, 1.8 GHz

xx = 5/8 or PG11 connector configuration

40 SERIES AC POWER INSERTER

4OAC15A-xx	Power Inserter 15A
4OAC15A-5/8-3512F	Power Inserter 15A, including 3.5-12F adapters on all ports

xx = 5/8 or PG11 connector configuration

40 SERIES FIXED TAPS - 1-WAY AND 2-WAY

4ODC071-xx	1-way tap, 7 dB, 1.8 GHz
4ODC101-xx	1-way tap, 10 dB, 1.8 GHz
4ODC131-xx	1-way tap, 13 dB, 1.8 GHz
4ODC171-xx	1-way tap, 17 dB, 1.8 GHz
4ODC221-xx	1-way tap, 22 dB, 1.8 GHz
4ODC132-xx	2-way tap, 13 dB, 1.8 GHz

xx = 5/8 or PG11 connector configuration

40 SERIES 1-WAY TAP DESIGNED FOR USE WITH 4ODC001-PM-xx MODULES

4ODC001-xx	1-way tap plug-in device for 4ODC001-PM-xx modules
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xx = 5/8 or PG11 connector configuration

40 SERIES PLUG-IN MODULES - COMPATIBLE WITH 4ODC001-xx

4ODC001-PM-07	7 dB, 1.8 GHz
4ODC001-PM-10	10 dB, 1.8 GHz
4ODC001-PM-13	13 dB, 1.8 GHz
4ODC001-PM-17	17 dB, 1.8 GHz
4ODC001-PM-22	22 dB, 1.8 GHz

xx = 5/8 or PG11 connector configuration

40 SERIES ACCESSORIES

AD-041L	KS test probe 1.2 GHz, long F female-5/8", att. 20dB
AD-041L-Z	KS test probe 1.2 GHz, long F female-5/8", att. 20dB, 1.5x turns of screw-thread
KDC310	Adapter PG11 - 3.5/12
KDC312	Adapter PG11 - IEC (f)
AD-043	Adapter 5/8 male - IEC female M14

Reference Configuration Example:

SPLITTERS

- a) The ordering of a 40 splitter with a 5/8" connector configuration is denoted as follows: 4OSP402-5/8
b) The ordering of a 40 splitter with a PG11 connector configuration is denoted as follows: 4OSP402-PG11

TELESTE

TELESTE CORPORATION

www.teleste.com

40-SERIES_20260911

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