Line passives (splitters)

OSR outdoor splitters

- Compatible with Regal RLS series splitters
- Ingress Safe[™] unique passive ingress reduction technology
- Excellent RF and hum modulation performance
- Designed for extreme environmental conditions



Overview

OSR outdoor splitters are compatible with Regal RLS outdoor splitters. The OSR series includes 2-way, 3-way balanced and 3-way unbalanced splitters. Providing integrated Ingress Safe[™] noise reduction technology, surge protection on all ports, excellent RF and hum modulation performance, the splitters feature 5/8"-24 NEFfemale ports for in and output cable connection on the housing.

The splitters may be strand mounted through the clamp at the back of the housing or surface mounted with an optional bracket. Tested under extreme environmental conditions, the splitters are designed to operate near salt water, along busy highways and in very hot conditions.

Ingress Safe

Our patented Ingress Safe technology uses a phase cancellation technique to considerably reduce ingress created within the home. It has no adverse effect on the CATV spectrum and is transparent to the forward and reverse path signals.

- Significantly reduces noise on CATV networks, improving network performance
- Field tests show Ingress Safe units in the distribution network can deliver improvement in the carrier to noise ratio that averages from between 3 dB and 12 dB, depending on the network topology
- Prevents or delays the need to deploy technicians to rectify faults caused by the cumulative effects of ingress on network performance and customer service.

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Specifications

Insertion loss (dB)	In to Out Out 1 Out 2 Out 3	5-65 65-300 300-550 550-750 750-862 862-1006 5-65 65-300 300-550 550-750 750-862 862-1006 5-65	Typ 3.5 3.7 4.0 4.1 4.3 4.4 4.1 4.2 4.6 4.8 5.0 5.1	Max 3.9 4.1 4.4 4.5 4.7 4.9 4.4 ⁻ 4.6 ⁻ 4.9 ⁻ 5.0 ⁻ 5.2 ⁻	Typ 5.2 5.6 6.1 6.4 6.8 6.8 5.3 5.6 6.0 6.3 6.8	Max 5.6 6.0 6.5 6.6 7.2 8.3 5.6 6.0 6.5 6.6 7.2	Typ 3.4 3.7 4.1 4.3 4.6 4.6 6.7 7.1 7.5 7.8	Max 3.8 4.1 4.5 4.7 5.0 5.2 7.1 7.5 7.9 8.2
	Out 2	65-300 300-550 550-750 750-862 862-1006 5-65 65-300 300-550 550-750 750-862 862-1006	3.7 4.0 4.1 4.3 4.4 4.1 [•] 4.2 [•] 4.6 [•] 4.8 [•] 5.0 [•]	4.1 4.4 4.5 4.7 4.9 4.4 ⁻ 4.6 ⁻ 4.9 ⁻ 5.0 ⁻ 5.2 ⁻	5.6 6.1 6.4 6.8 5.3 5.6 6.0 6.3	 6.0 6.5 6.6 7.2 8.3 5.6 6.0 6.5 6.6 	 3.7 4.1 4.3 4.6 4.6 6.7 7.1 7.5 	 4.1 4.5 4.7 5.0 5.2 7.1 7.5 7.9
		300-550 550-750 750-862 862-1006 5-65 65-300 300-550 550-750 750-862 862-1006	4.0 4.1 4.3 4.4 4.1 [•] 4.2 [•] 4.6 [•] 4.8 [•] 5.0 [•]	4.4 4.5 4.7 4.9 4.4 [•] 4.6 [•] 4.9 [•] 5.0 [•] 5.2 [•]	 6.1 6.4 6.8 6.8 5.3 5.6 6.0 6.3 	 6.5 6.6 7.2 8.3 5.6 6.0 6.5 6.6 	 4.1 4.3 4.6 4.6 6.7 7.1 7.5 	 4.5 4.7 5.0 5.2 7.1 7.5 7.9
		550-750 750-862 862-1006 5-65 65-300 300-550 550-750 750-862 862-1006	4.1 4.3 4.4 4.1 [*] 4.2 [*] 4.6 [*] 4.8 [*] 5.0 [*]	4.5 4.7 4.9 4.4 [*] 4.6 [*] 4.9 [*] 5.0 [*] 5.2 [*]	 6.4 6.8 5.3 5.6 6.0 6.3 	6.6 7.2 8.3 5.6 6.0 6.5 6.6	 4.3 4.6 4.6 6.7 7.1 7.5 	4.7 5.0 5.2 7.1 7.5 7.9
		750-862 862-1006 5-65 65-300 300-550 550-750 750-862 862-1006	4.3 4.4 4.1 [•] 4.2 [•] 4.6 [•] 4.8 [•] 5.0 [•]	4.7 4.9 4.4 [•] 4.6 [•] 4.9 [•] 5.0 [•] 5.2 [•]	6.8 6.8 5.3 5.6 6.0 6.3	7.2 8.3 5.6 6.0 6.5 6.6	4.6 4.6 6.7 7.1 7.5	5.0 5.2 7.1 7.5 7.9
		862-1006 5-65 65-300 300-550 550-750 750-862 862-1006	4.4 4.1 [*] 4.2 [*] 4.6 [*] 4.8 [*] 5.0 [*]	4.9 4.4 [*] 4.6 [*] 4.9 [*] 5.0 [*] 5.2 [*]	6.8 5.3 5.6 6.0 6.3	8.3 5.6 6.0 6.5 6.6	4.6 6.7 7.1 7.5	5.2 7.1 7.5 7.9
		5-65 65-300 300-550 550-750 750-862 862-1006	4.1 [*] 4.2 [*] 4.6 [*] 4.8 [*] 5.0 [*]	4.4 [*] 4.6 [*] 4.9 [*] 5.0 [*] 5.2 [*]	5.3 5.6 6.0 6.3	5.6 6.0 6.5 6.6	6.7 7.1 7.5	7.1 7.5 7.9
		65-300 300-550 550-750 750-862 862-1006	4.2* 4.6* 4.8* 5.0*	4.6 [*] 4.9 [*] 5.0 [*] 5.2 [*]	5.6 6.0 6.3	6.0 6.5 6.6	7.1 7.5	7.5 7.9
	Out 3	300-550 550-750 750-862 862-1006	4.6* 4.8* 5.0*	4.9* 5.0* 5.2*	6.0 6.3	6.5 6.6	7.5	7.9
	Out 3	550-750 750-862 862-1006	4.8 [*] 5.0 [*]	5.0 [*] 5.2 [*]	6.3	6.6		
	Out 3	750-862 862-1006	5.0 [*]	5.2 [*]			7.8	00
	Out 3	862-1006			6.8	72		0.2
	Out 3		5.1 [*]				8.3	8.7
	Out 3	5-65		5.4 [*]	6.9	8.3	8.4	8.8
					5.7⁺	6.1 [*]	7.1*	7.6 [*]
		65-300			5.9 [*]	6.5*	7.3⁺	8.0*
		300-550	N/	(A	6.4 [*]	7.0*	7.9 [*]	8.4 [*]
		550-750	IN/	A	6.5 [*]	7.1 [*]	8.0 [*]	8.7 [*]
		750-862			7.0 [*]	7.7*	8.4 [*]	9.2 [*]
		862-1006			7.3 [∗]	8.8 [*]	8.6 [*]	9.3 [*]
Return loss (dB, typ)	All ports	5-15	23	.4	22.9		23.3	
		15-550	24	.5	25	5.0	23	.1
		550-1006	23	.9	25	5.6	24	.0
Isolation	Out to Out		Тур	Min	Тур	Min	Тур	Min
		5-30	35.2	18.0	31.4	18.0	33.9	18.0
		30-550	28.6	22.0	28.3	22.0	30.1	22.0
		550-1006	24.5	20.0	27.5	20.0	27.7	20.0
Screening efficiency (dB) ¹		5-300			>95			
		300-470		>90				
		470-950			>	85		
		950-1000			>	85		
Shielding effectiveness		5-300			Avg 120			
(dBi)²		300-1000			Avg	110		
Power passing (Amps AC/ DC, typ)		15						
Fuse rating (Amps AC/		15						
DC, typ) Hum modulation (dB, min) ³	All ports	-70						
Surge Class conform- ance ⁴	All ports	6KV comb	ination w		2 1.2/50 C3))µs (Corr	bination	wave
Material	Housing				minum			
Impedance (Ohm, typ)				,	75			
Dimensions (mm)	LxHxD	140x112x72						
Equipment Approval	CE	ΤΗΟΛΤΙΖΑΤΖ						

Remarks

- 1 Tested according to EN 50083-2 2006
- 2 Tested according to SCTE IPS-TP-403
- 3 At 10 Amp power passing
- 4 Tested according to IEC 61000-4-5 2005
- * Additional 0.5 dB loss included for Ingress Safe circuit

Ordering information						
Item Name	Article number					
0SR-02/I	10470164					
0SR-03/I	10470165					
0SR-33/I	10470166					

Measurements taken at room temperature

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Mechanical & environmental specifications

Performance parameter		Details		
Connectors	Input & Output	KS-female (5/8"-24NEF)		
Water Immersion	Tighten torque on connectors	2.26Nm (< 20 In-Lb)		
(IP08)	Water Head	2m (6.56 ft)		
	Duration	500 hrs		
	Observation: No Water leak	No electrical degradation after dry		
Temperature cycling with humidity	Temperature	+4°C to +60°C (+39.2°F to +140°F)		
(EN 60068-2-30:2005)	Extreme temp duration	3 hrs		
	Transient	3 hrs		
	Humidity	95% RH		
	Number of cycles	20		
	Observation: (no water leakage)	No electrical degradation after dry		
High Temperature cycling	Temperature	+60°C (+140°F)		
(EN 60068-2-2:2007)	Duration	48 hrs		
	Observation: No crack or damage	No electrical degradation after dry		
Drop Test	75cm (29.5 in) high onto concrete floor or metal plate surface	e Corner, Edge & Port		
(EN 60068-2-32:1993 ,	Number of drop for each impact point	1		
IEC 68-2-32:1975)	Observation: No crack on metal	No electrical performance degradation		
Salt Fog	Tighten torque on connectors	2.26Nm (< 20 In-Lb)		
(MSTM-B-117)	Temperature	+35℃ (+95°F)		
	Salt percentage & Acidity	5% & pH7		
	Duration	1000 hrs		
	Number of cycles	Continues		
	Observation: (No electrical performance degradation)	No metal corrosion or salt incursion		
WEEE (2002/96/EC)	Complete product	Marked with wheelie bin logo		
RoHS (2002/95/EC)	Complete product	Complies to RoHS		
Temperature	Operating temperature	-10°C to +70°C (-4°F to +158°F)		
	Storage Temperature	-20°C to +85°C (-14°F to +185°F)		
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