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 NEF-female 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

		MHz	2-Way		3-Way		3-Way	
Insertion loss (dB)	In to Out		Typ	Max	Typ	Max	Typ	Max
	Out 1	5-65	3.5	3.9	5.2	5.6	3.4	3.8
		65-300	3.7	4.1	5.6	6.0	3.7	4.1
		300-550	4.0	4.4	6.1	6.5	4.1	4.5
		550-750	4.1	4.5	6.4	6.6	4.3	4.7
		750-862	4.3	4.7	6.8	7.2	4.6	5.0
		862-1006	4.4	4.9	6.8	8.3	4.6	5.2
	Out 2	5-65	4.1*	4.4*	5.3	5.6	6.7	7.1
		65-300	4.2*	4.6*	5.6	6.0	7.1	7.5
		300-550	4.6*	4.9*	6.0	6.5	7.5	7.9
		550-750	4.8*	5.0*	6.3	6.6	7.8	8.2
		750-862	5.0*	5.2*	6.8	7.2	8.3	8.7
		862-1006	5.1*	5.4*	6.9	8.3	8.4	8.8
	Out 3	5-65	N/A		5.7*	6.1*	7.1*	7.6*
		65-300			5.9*	6.5*	7.3*	8.0*
		300-550			6.4*	7.0*	7.9*	8.4*
		550-750			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		25.0		23.1	
		550-1006	23.9		25.6		24.0	
Isolation	Out to Out		Typ	Min	Typ	Min	Typ	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 (dBi)[2]		5-300	Avg 120					
		300-1000	Avg 110					
Power passing (Amps AC/DC, typ)		15						
Fuse rating (Amps AC/DC, typ)		15						
Hum modulation (dB, min)[3]	All ports	-70						
Surge Class conformance[4]	All ports	6KV combination wave 2 Ω 1.2/50µs (Combination wave C3)						
Material	Housing	Aluminum						
Impedance (Ohm, typ)		75						
Dimensions (mm)	L x H x D	140x112x72						
Equipment Approval	CE							

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
OSR-02/I	10470164
OSR-03/I	10470165
OSR-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	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°C (+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)