OTR 8-way outdoor taps

- **Compatible with Regal RMT2002 taps**
- **Ingress Safe™ - unique passive ingress reduction technology**
- **AC-RF bypass switch, allowing faceplates to be changed without loss of power or RF**
- **Designed for extreme environmental conditions**
- **Option to incorporate plug-in conditioning modules**
- **Faceplate only option available**

Overview

OTR 8-way outdoor taps are compatible with Regal RMT2002 series taps. Providing integrated Ingress Safe™ noise reduction technology, 6 kV surge protection and excellent RF performance, OTR taps feature sealed female F-ports for drop cable connection on the faceplate and 5/8"-24 NEF-female ports for in and output cable connection on the housing. The housing has an AC-RF bypass switch as standard, allowing faceplates to be changed without loss of power or RF through the tap housing.

The taps 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 taps are designed to operate near salt water, along busy highways and in very hot conditions.

As an option these taps can accept field configurable plug-in modules which provide increased flexibility in system design. It is possible to use cable equalizers, return path attenuators, and cable simulators in order to fine-tune return path performance.

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.

CPD Safe

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidisation of dissimilar metals when in close contact.

- Removes a primary cause of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Reduces truck rolls
- Improves customer service

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Specifications

		MHz	11dB		14dB		17dB		20dB		23dB		26dB		29dB		32dB	
Insertion loss (dB)[1]	In to Out		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
		5-65	N/A		3.2	3.6	1.2	1.6	0.8	1.2	0.6	1.0	0.3	0.7	0.3	0.7	0.3	0.7
		65-300			3.5	3.9	1.5	1.9	1.0	1.4	0.8	1.2	0.5	0.9	0.4	0.8	0.4	0.8
		300-550			4.3	4.7	2.1	2.5	1.5	1.9	1.2	1.6	1.0	1.4	0.8	1.2	0.8	1.2
		550-750			4.5	4.9	2.4	2.8	1.7	2.1	1.3	1.7	1.1	1.5	0.9	1.3	0.9	1.3
		750-862			4.6	5.0	2.7	3.1	2.0	2.4	1.6	2.0	1.3	1.7	1.2	1.6	1.2	1.6
		862-1006			4.7	5.2	2.7	3.2	2.0	2.5	1.6	2.1	1.4	1.9	1.2	1.7	1.2	1.7
	In to Tap	5-65	10.5	12.0	14.1	15.0	17.4	18.0	19.3	21.0	22.9	24.0	25.9	27.0	28.7	30.0	32.0	33.0
		65-550	11.0	12.0	14.0	15.0	17.5	18.0	19.4	21.0	23.0	24.0	26.1	27.0	28.7	30.0	32.0	33.0
		550-1006	12.3	13.0	14.8	16.0	17.7	19.0	19.4	22.0	23.0	25.0	25.8	28.0	28.2	31.0	32.0	34.0
Return loss (dB, typ)	All ports	5-65	27.5		30.2		26.6		27.1		27.0		31.1		30.4		29.8	
		15-550	27.1		28.4		27.4		26.5		27.6		28.1		28.9		28.1	
		550-1006	22.8		22.8		24.4		24.5		24.1		23.3		24.8		23.0	
Isolation (dB)	In to Tap		Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min
		5-65	40.0	25.0	34.7	25.0	37.2	25.0	36.7	25.0	37.2	25.0	39.2	25.0	39.3	25.0	37.5	25.0
		65-550	34.5	25.0	38.8	25.0	37.2	25.0	36.6	25.0	34.1	25.0	36.9	25.0	38.0	25.0	34.5	25.0
		550-1006	27.7	22.0	33.4	22.0	34.3	22.0	33.6	22.0	30.0	22.0	30.9	22.0	31.7	22.0	29.0	22.0
Directivity	Out to Tap	5-65	N/A		39.2	27.0	32.6	29.0	36.1	31.0	47.3	33.0	52.8	35.0	55.5	37.0	53.5	39.0
		65-550			35.0	27.0	34.6	29.0	38.0	31.0	45.6	33.0	47.1	35.0	49.7	37.0	55.5	39.0
		550-1006			31.2	24.0	39.0	26.0	31.5	28.0	38.5	30.0	39.5	32.0	40.7	34.0	52.0	36.0
Screening efficiency (dB)[2]		5-300	>95															
		300-470	>90															
		470-950	>85															
		950-1000	>85															
Shielding effectiveness (dBi)[3]		5-300	Avg 120															
		300-1000	Avg 110															
Ingress Safe		Ports 3,4,7,8																
Power passing (Amps AC/DC)[4]		12																
Hum modulation (dB, min)[5]	All ports	-70																
DC power blocking		All F ports																
Surge Class conformance[6]	All ports	6KV combination wave 2 Ω 1.2/50µs (Combination wave C3)																
Impedance (Ohm, typ)		75																
Dimensions (mm)	L x H x D	139.1x117.5x74.5																
Equipment Approval	CE																	

Remarks

1	Ports 3,4,7,8 has an additional 0.4 dB loss due to Ingress Safe circuitry
2	According to EN 50083-2 2006
3	Tested according to SCTE IPS-TP-403
4	Range between 60-90 VAC/ VDC
5	At 10 Amp power passing
6	Tested according to IEC 61000-4-5 2005
	Measurements taken at room temperature

Ordering information

Item Name	Article number	Item Name	Article number	Item Name	Article number
OTR-8-11/IC-T	19003751	OTRF-8-11/I-T	19003800	OTR-8-11/I-T	10470095
OTR-8-14/IC	19003752	OTRF-8-14/I	19003801	OTR-8-14/I	10470096
OTR-8-17/IC	19003753	OTRF-8-17/I	19003802	OTR-8-17/I	10470097
OTR-8-20/IC	19003754	OTRF-8-20/I	19003803	OTR-8-20/I	10470098
OTR-8-23/IC	19003755	OTRF-8-23/I	19003804	OTR-8-23/I	10470099
OTR-8-26/IC	**19003756**	OTRF-8-26/I	19003805	OTR-8-26/I	10470100
OTR-8-29/IC	19003757	OTRF-8-29/I	19003806	OTR-8-29/I	10470101
OTR-8-32/IC	19003758	OTRF-8-32/I	19003807	OTR-8-32/I	10470102

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Mechanical & environmental specifications

Performance parameter		Details
Port Sealing	Environmental (epoxy) seal	All F-ports
Connectors	Input & Output	KS-female (5/8"-24NEF)
	Tap ports	TAP ports - F Female
	ANSI/SCTE 01 (Outdoor) comply	All F-ports
	F-connector Torque	10Nm (88.51 In-Lb)
	F-connector Brass with NiSn (60/40) plating	>1.5µm
	F connector Inserts F-inner spring with Ag plating	>0.6µm
Water Immersion (IP08)	Tighten torque on connectors	2.26Nm (< 20 In-Lb)
	Water Head	2m (6.56 ft)
	Duration	500 hrs
	Observation: No Water leak	No electrical degradation after dry
Temperature cycling with humidity (EN 60068-2-30:2005)	Temperature	+4°C to +60°C (+39.2°F to +140°F)
	Extreme temp duration	3 hrs
	Transient	3 hrs
	Humidity	95% RH
	Number of cycles	60
	Observation: (no water leakage)	No electrical degradation after dry
High Temperature cycling (EN 60068-2-2:2007)	Temperature	+60°C (+140°F)
	Duration	48 hrs
	Observation: No crack or damage	No electrical degradation after dry
Drop Test (EN 60068-2-32:1993 , IEC 68-2-32:1975)	75cm (29.5 in) high onto concrete floor or metal plate surface	Corner, Edge & Port
	Number of drop for each impact points	1
	Observation: No crack on metal	No electrical performance degradation
Salt Fog (MSTM-B-117)	Tighten torque on connectors	2.26Nm (< 20 In-Lb)
	Temperature	+25°C
	Salt percentage & Acidity	5% & pH7
	Duration	8hrs on-16hrs off
	Number of cycles	20
	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	-40°C to +60°C (-40°F to +140°F)