

## TRUSEAL TSPe Ex eb & Ex ta (TO BE USED WITH Ex i APPLICATIONS) POLYMER, EXPLOSIVE ATMOSPHERE CABLE GLAND

### FOR ALL TYPES OF UNARMoured & BRAIDED / SCREENED CABLES

- Blue nut for intrinsically safe (Ex i) identification, also available in full blue
- Halogen and phosphorus-free
- Unique strain relief sealing system
- Widest cable range take for any comparable cable gland
- Low weight with high stiffness and strength
- Anti-vibration technology prevents seal loosening in operation
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Approved entry thread sealing washer included
- For clearance holes the TSPe must be installed using a CMP metallic locknut (available with the cable gland using ordering suffix 2TN)



shown in black with blue nut and standard seal

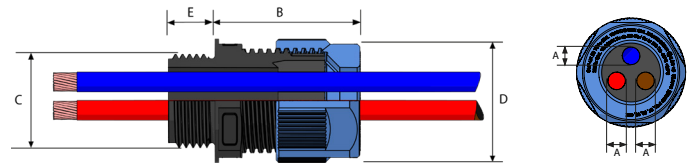
TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	12-16 Impact = Level 5, 20-63 Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	12-16 IK07 to IEC 62262 (4 joules), 20-63 IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K
CABLE GLAND MATERIAL	Halogen-free Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP unique strain relief sealing system
SEALING AREA(S)	Cable Outer Sheath

\* Mechanical classifications applied as per IEC/EN 62444

\*\* IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 19ATEX3185X	IECEX CERTIFICATE	IECEX CML 19.0062X
UKEX CERTIFICATE	CML 21UKEX3264X	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
CODE OF PROTECTION	Ⓢ II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da		
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	EA3C KZ 7100841.01.01.07867	DNV CERTIFICATE	TAE00000Y
SANS	IA S-XPL21804 21.0014X	CCC CERTIFICATE	2020322313003450
INMETRO CERTIFICATE	TUV 25.0780X		



### PRODUCT SELECTION TABLE WITH MULTISEAL RANGE

MULTISEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'			ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'	WEIGHT GLAND ONLY † (KG)
		STANDARD		OPTION (See part number note under table)			NO. OF HOLES	MIN	MAX				
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'							
16MS1TSPE1TA4	16MS1TSPE2TN4	M16	9.0	15.0	3/8"	11.0	2	3.0	4.0	19.0	20.9	27.0	0.009
16MS2TSPE1TA4	16MS2TSPE2TN4	M16	9.0	15.0	3/8"	11.0	3	1.0	2.0	19.0	20.9	27.0	0.010
20MS1TSPE1TA4	20MS1TSPE2TN4	M20	10.0	15.0	1/2"	14.0	2	3.0	5.0	24.0	26.2	30.5	0.014
20MS2TSPE1TA4	20MS2TSPE2TN4	M20	10.0	15.0	1/2"	14.0	3	3.0	4.0	24.0	26.2	30.5	0.015
20MS3TSPE1TA4	20MS3TSPE2TN4	M20	10.0	15.0	1/2"	14.0	4	3.0	4.0	24.0	26.2	30.5	0.014
25MS1TSPE1TA4	25MS1TSPE2TN4	M25	10.0	15.0	3/4"	15.0	2	4.0	6.0	30.0	32.7	36.0	0.028
25MS2TSPE1TA4	25MS2TSPE2TN4	M25	10.0	15.0	3/4"	15.0	2	5.0	7.0	30.0	32.7	36.0	0.027
25MS3TSPE1TA4	25MS3TSPE2TN4	M25	10.0	15.0	3/4"	15.0	2	6.0	8.0	30.0	32.7	36.0	0.027
25MS4TSPE1TA4	25MS4TSPE2TN4	M25	10.0	15.0	3/4"	15.0	3	4.0	6.0	30.0	32.7	36.0	0.027
25MS5TSPE1TA4	25MS5TSPE2TN4	M25	10.0	15.0	3/4"	15.0	3	5.0	7.0	30.0	32.7	36.0	0.026
25MS6TSPE1TA4	25MS6TSPE2TN4	M25	10.0	15.0	3/4"	15.0	4	3.0	5.0	30.0	32.7	36.0	0.027
25MS7TSPE1TA4	25MS7TSPE2TN4	M25	10.0	15.0	3/4"	15.0	4	4.0	6.0	30.0	32.7	36.0	0.027
25MS8TSPE1TA4	25MS8TSPE2TN4	M25	10.0	15.0	3/4"	15.0	5	2.0	4.0	30.0	32.7	36.0	0.027
25MS9TSPE1TA4	25MS9TSPE2TN4	M25	10.0	15.0	3/4"	15.0	5	3.0	5.0	30.0	32.7	36.0	0.026
25MS10TSPE1TA4	25MS10TSPE2TN4	M25	10.0	15.0	3/4"	15.0	4	5.0	6.5	30.0	32.7	36.0	0.026
32MS1TSPE1TA4	32MS1TSPE2TN4	M32	12.0	15.0	1"	18.0	3	8.0	10.2	40.0	43.6	41.0	0.053
32MS2TSPE1TA4	32MS2TSPE2TN4	M32	12.0	15.0	1"	18.0	1	5.0	6.8	40.0	43.6	41.0	0.053
							2	8.0	10.2				
32MS3TSPE1TA4	32MS3TSPE2TN4	M32	12.0	15.0	1"	18.0	1	6.0	7.6	40.0	43.6	41.0	0.053
							2	10.0	11.7				
32MS4TSPE1TA4	32MS4TSPE2TN4	M32	12.0	15.0	1"	18.0	4	6.0	8.0	40.0	43.6	41.0	0.053
32MS5TSPE1TA4	32MS5TSPE2TN4	M32	12.0	15.0	1"	18.0	6	4.0	6.0	40.0	43.6	41.0	0.054
32MS6TSPE1TA4	32MS6TSPE2TN4	M32	12.0	15.0	1"	18.0	8	3.0	4.0	40.0	43.6	41.0	0.055
32MS7TSPE1TA4	32MS7TSPE2TN4	M32	12.0	15.0	1"	18.0	8	4.0	5.0	40.0	43.6	41.0	0.053
40MS1TSPE1TA4	40MS1TSPE2TN4	M40	12.0	18.0	1-1/4"	18.0	1	8.0	10.2	50.0	54.5	49.0	0.096
							2	10.0	11.7				
40MS2TSPE1TA4	40MS2TSPE2TN4	M40	12.0	18.0	1-1/4"	18.0	4	8.0	10.0	50.0	54.5	49.0	0.094

Part numbers in table are for standard metric entry threads. For guidance ordering alternate materials or alternate thread types, please contact your CMP sales representative.

† Weight displayed for standard metric entry thread only.

For MOQ please contact CMP directly.

Dimensions displayed in mm unless otherwise specified.

# HOW TO ORDER

Size	Seal Type		Gland Type		Accessory Reference		Material		Colour			Thread Option					
12	MS2	STANDARD	TSPE	POLYMER EXPLOSIVE (Ex i)	1TA	STANDARD	NYLON	4	BLUE NUT / BLACK ENTRY		-	METRIC SHORT					
16					2TN	LOCKNUT (TN)		44			FULLY BLUE		L	METRIC LONG			
20					1TD	TRANSIT DISC					T	NPT					
25					2TDN	TRANSIT DISC & LN											
32					1TP	IP PLUG											
40					2TPN	IP PLUG & LN											
50																	
63																	
20					MS2			TSPE		2TDN			4			T	

**EXAMPLE: 20MS2TSPE2TDN4T = SIZE 20, MULTISEAL 2 SEAL, TSPe POLYMER EXPLOSIVE (Ex i), W/TRANSIT DISC & LOCKNUT, NYLON MATERIAL, BLUE NUT/BLACK ENTRY, NPT THREAD OPTION**

## MULTISEAL COMBINATIONS & HOLE SIZE

SIZE	16				20				25				32				40													
	DIAGRAM	NO. OF HOLES	APPLICATION		SEALING RANGE		DIAGRAM	NO. OF HOLES	APPLICATION		SEALING RANGE		DIAGRAM	NO. OF HOLES	APPLICATION		SEALING RANGE		DIAGRAM	NO. OF HOLES	APPLICATION		SEALING RANGE							
			I	H	MIN	MAX			I	H	MIN	MAX			I	H	MIN	MAX			I	H	MIN	MAX						
MS1		2	I	H	2.0	4.0		2	I	H	3.0	5.0		2	I	H	3.0	6.0		3	I	H	6.0	10.2		3	I	H	1X7.0 2X8.0	1X10.2 2X11.7
MS2		3	I	H	1.0	2.0		3	I	H	2.0	4.0		2	I	H	5.0	7.0		3	I	H	1X4.0 2X7.0	1X6.8 2X10.2		4	I	H	7.0	10.0
MS3								4	I	H	2.0	4.0		2	I	H	5.0	8.0		3	I	H	1X5.0 2X9.0	1X7.6 2X11.7						
MS4								6	I	H	2.5	3.5		3	I	H	3.0	6.0		4	I	H	1X6.0 2X10.0	1X7.6 2X11.7						
MS5													3	I	H	5.0	7.0		6	I	H	4.0	6.0							
MS6													4	I	H	3.0	5.0		8	I	H	2.0	4.0							
MS7													4	I	H	4.0	6.0		8	I	H	3.0	5.0							
MS8													5	I	H	2.0	4.0													
MS9													5	I	H	3.0	5.0													
MS10													4	I	H	5.0	6.5													

I = Industrial H = Hazardous