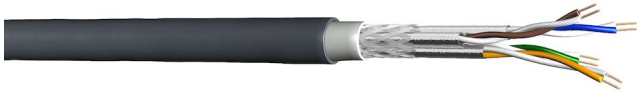


# ICS IE TOUGH CAT 7 MUD PROTECTED

S/FTP Installation Cable for tougher environments, MUD resistant.



## GENERAL INFO

Generic Data transmission. This cable is a Cat.7 S/FTP cable based on our DNV certified ToughCat, but with an additional fire retardant, halogen-free, low smoke MUD protecting UV-resistant outer jacket. This cable is meant for use as installation/horizontal cable in tougher electrical and mechanical environment, including ships and offshore units.

## CERTIFICATIONS AND DESIGN STANDARDS



**IEC 61156-5**  
**EN 50173-1**  
**EN 50288-4-1**  
**ISO/IEC 11801**

Datacom cables  
 Generic cabling systems  
 Datacom cables shielded up to 600 MHz  
 Generic cabling system

## CABLE CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Polyethylene (PE)
Screen over stranding element	Foil + braiding
Screen construction	Metal tape and braid
Screen material	Copper, tinned
Screen over stranding	Braiding
Material inner sheath	Halogenfree polymer
Material outer sheath	Other
Protective sheath	Other
Cable shape	Round

## APPLICATION PROPERTIES

Oil resistant (acc. IEC 60811-404)	Yes
Mud resistant	Yes
Min. outer temperature, fixed installation [°C]	-40
Max. outer temperature, fixed installation [°C]	80
UV resistant	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	50
Bending radius (rule)	Installation: 8 x D, Operation : 4 x D
Certified for shipboard application	Yes

## FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-3-24
Halogen free (acc. IEC 60754-2)	Yes
Low smoke (acc. IEC 61034-2)	Yes
Reaction-to-fire class (acc. EN 13501-6)	Eca

## ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	7
NVP value [%]	76
Resistance unbalance (max) [%]	2
Nominal mutual capacitance [pF/m]	43
Capacitance unbalance (max) [pF/m]	1,500
Propagation delay (max) [ns/100m]	450
Delay skew (max) [ns/100m]	15
Transfer impedance at 10 MHz [mOhm/m]	8
Segregation classification (acc. EN 50174-2)	d

## ELECTRICAL DATA (NOMINAL)

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	2,0	90	88		87	85	85	82
4	3,6	90	86	27	87	83	85	82
10	5,5	90	84	30	87	81	79	76
16	7,5	90	82	30	87	79	75	72
20	7,7	90	82	30	87	79	73	70
31.25	9,8	90	80	30	87	77	69	66
62.50	14	86	72	30	83	69	63	60
100	17,9	83	65	30	80	62	59	56
155	22,4	81	59	26	78	55	57	54
200	25,6	78	52	25	75	49	53	50
250	28,8	77	48	25	74	45	51	48
300	31,6	73	41	23	70	38	47	44
600	45,7	71	25	20	68	22	44	41

acc. to Cat.7 (at 20°C)

## PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP	EL no.	Packaging type	Standard packaging quantity	User unit
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	Grey	60015692	60015692	Drum (non-standard length)	0	MTR
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	Grey	60015695	1082669	Drum	500	MTR

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## CONSTRUCTION DETAILS

Product name	Conductor category	Diameter conductor [mm]	AWG size	Number of stranding elements	SAP
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	Class 2 = stranded	0.66	23	4	60015692
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	Class 2 = stranded	0.66	23	4	60015695

## CONSTRUCTION DETAILS(02)

Product name	Nominal outer diameter [mm]	Fire load [MJ/km]	Max. tensile strength during installation [kN]	Cable weight [kg/km]	DOP number	SAP
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	10.1		0.14	108	1002715	60015692
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	10.1		0.14	108	1002715	60015695

## ELECTRICAL PROPERTIES(PER ITEM)

Product name	Nominal operation capacitance [nF/km]	Characteristic impedance [Ohm]	Loop resistance [Ohm]	Coupling attenuation [dB]	SAP
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	43	100	138	85	60015692
TOUHCAT MUD C7 S/FTP 4PX0.27MM2	43	100	138	85	60015695