



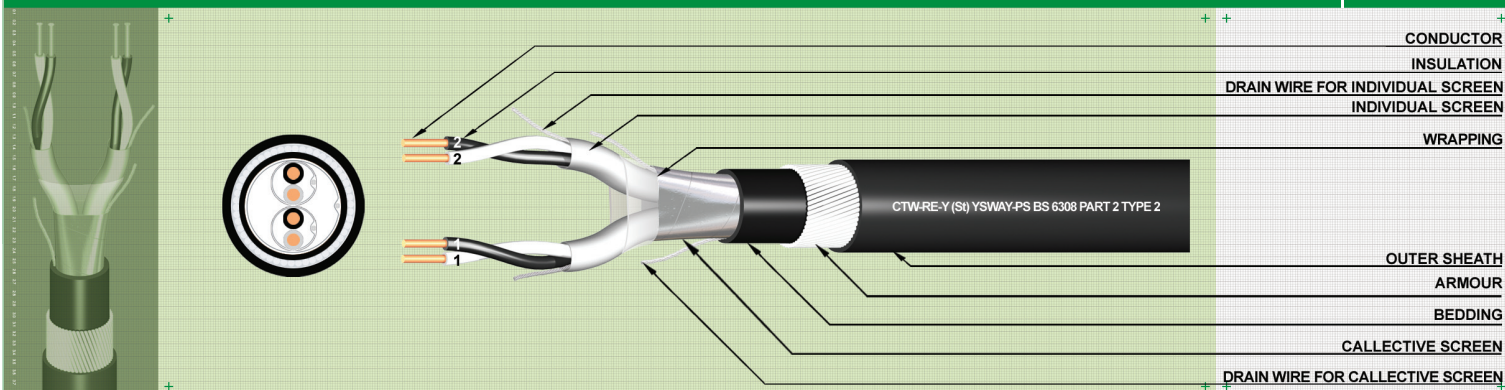
CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-RE-Y(St)YSWAY-PS**

Standard : BS 5308 Part 2 Type 2

: Multi pairs , PVC Insulation, Individual & Collective Screen, PVC Sheath, Armour 300/500 V

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APPLICATION

For transmission of analog and digital signals in instrument and control systems; use in zone 1 and zone 2 group II classified areas (IEC 60079 part 14). Not allowed for direct connection to low impedance source, e.g. the public mains electricity. Not recommended for direct burial. For indoor and outdoor installation in dry and wet location on racks, in conduits.

CONSTRUCTION

Conductor : Plain annealed copper wire in according to BS 6360
 Insulation : Black polyvinyl chloride (PVC) Type TI1 in according to BS 6746 Colour
 Colour code : BLACK / WHITE with continuous print numbered on cores
 (Optional : According to BS 5038 Part 2)
 Individual Screen : Consisting of Aluminum foil in contact with Tinned-Cu drain wire 0.5 mm².
 Wrapping : At least 1 layer of polyester tape
 Collective screen : Consisting of Aluminum foil in contact with Tinned-Cu drain wire 0.5 mm².
 Bedding : Black polyvinyl chloride (PVC) Type TM1 in according to BS 6746
 Armour : galvanized round Steel Wire (SWA)
 Outer sheath : Black polyvinyl chloride (PVC) Type TM1 in according to BS 6746

OPTIONAL REQUEST

A special FR-PVC or Low Smoke HalogenFree (LSHF)
 * Flame retardant sheath can be supplied in accordance with BS4066 part 3
 * For LSHF only : BS 6425, BS 7622, BS4066 part 3

TECHNICAL DATA

Flame retardant : BS 4066 part 1
 Temperature range : Maximum conductor operating temperature : +65°C
 Minimum ambient temperature : -40°C
 after installation and only when cable is in a fixed position
 Minimum bending radius : 8 x Cable- ϕ

ABBREVIATIONS

CTW : Trade mark
 RE : Instrumentation cable
 Y : PVC insulation
 (ST) : Aluminum foil with tinned-copper drain wire screening
 SWA : Galvanized round steel wire
 Y : PVC outer sheath
 PS : Pair screen

ELECTRICAL DATA AT 20°C

DESCRIPTION	Character	Unit	Values		
Conductor size	nom.	mm ²	0.5 flexible	0.75 flexible	1.5 stranded
Conductor resistance	max.	Ω /km.	39.7	26.5	12.3
Insulation resistance	min.	M Ω -km.	25	25	25
Mutual capacitance at 1kHz					
One pair and two pair	max.	nF/km.	250	250	250
Capacitance unbalance at 1 kHz	max.	pF/250m	400	400	400
L/R (ratio)	max.	μ H/ Ω	25	25	40
Test Voltage U_{rms} core : core		V	1,000	1,000	1,000
U_{rms} core : Screen		V	1,000	1,000	1,000
Rate voltage U_0/U	max.	V	300/500	300/500	300/500



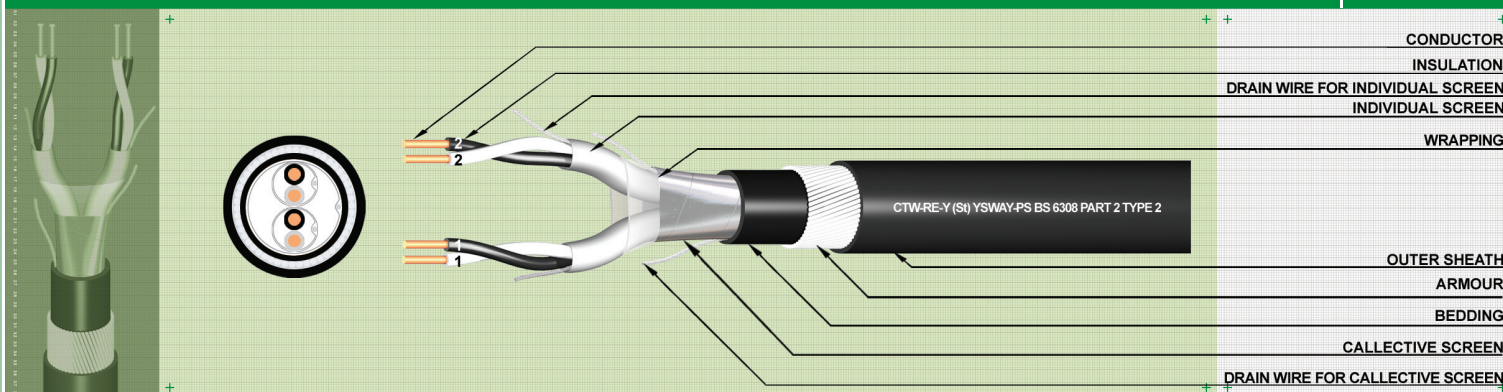
CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-RE-Y(ST)YSWAY-PS**

Standard : BS 5308 Part 2 Type 2

: Multi pairs , PVC Insulation, Individual & Collective Screen, PVC Sheath, Armour 300/500 V

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APPLICATION

For transmission of analog and digital signals in instrument and control systems; use in zone 1 and zone 2 group II classified areas (IEC 60079 part 14). Not allowed for direct connection to low impedance source, e.g. the public mains electricity

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Product code	Number of pairs	Nominal radial thickness of insulation mm	Nominal radial thickness of bedding mm	Diameter over bedding (approx.) mm	Armour wire diameter mm	Nominal radial thickness of outer sheath mm	Overall diameter (approx.) mm	Approx. Cable weight kg/km	Standard packing m/R
Conductor 0.5 sq.mm. (16/0.2mm.) Class 5									
T49280002	2	0.6	0.8	10.6	0.9	1.3	15.0	430	1,000
T49280005	5	0.6	1.1	14.3	0.9	1.5	19.1	720	1,000
T49280010	10	0.6	1.2	19.1	1.25	1.6	24.8	1,240	1,000
T49280015	15	0.6	1.3	22.2	1.6	1.7	28.8	1,520	1,000
T49280020	20	0.6	1.3	25.3	1.6	1.8	32.1	1,790	1,000
T49280030	30	0.6	1.5	30.6	1.6	1.9	37.6	2,570	1,000
T49280050	50	0.6	1.7	38.9	2.0	2.1	47.1	4,210	500
Conductor 0.75 sq.mm. (24/0.2mm.) class 5									
T49310002	2	0.6	0.8	11.5	0.9	1.4	16.1	460	1,000
T49310005	5	0.6	1.2	15.7	1.25	1.5	21.2	800	1,000
T49310010	10	0.6	1.3	20.9	1.6	1.7	27.5	1,360	1,000
T49310015	15	0.6	1.3	24.2	1.6	1.8	31.0	1,700	1,000
T49310020	20	0.6	1.5	27.9	1.6	1.8	34.7	2,340	1,000
T49310030	30	0.6	1.7	33.9	2.0	2.0	41.8	3,050	1,000
T49310050	50	0.6	2.0	43.1	2.5	2.3	52.7	4,800	500
Conductor 1.5 sq.mm. (7/0.53mm.) class 2									
T49200002	2	0.6	0.9	13.0	0.9	1.4	17.6	670	1,000
T49200005	5	0.6	1.2	17.5	1.25	1.6	23.2	1,130	1,000
T49200010	10	0.6	1.3	23.5	1.6	1.8	30.3	1,710	1,000
T49200015	15	0.6	1.5	27.6	1.6	1.9	34.6	2,420	1,000
T49200020	20	0.6	1.5	31.3	1.6	2.0	38.5	2,900	1,000
T49200030	30	0.6	1.7	38.0	2.0	2.1	46.2	4,380	1,000
T49200050	50	0.6	2.0	48.5	2.5	2.4	58.3	6,140	500