Belden equivalents

TITLE:

Belden Equivalent 9538 Overall Foil Screened Cores
External SWA

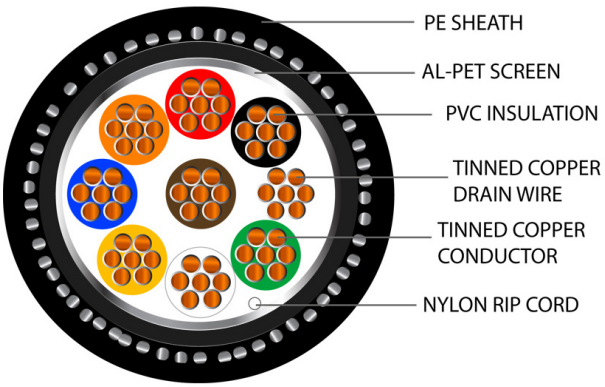
CODE:

OSC8-SWA-PE-BLK-1
OSC8-SWA-PE-BLK-100
OSC8-SWA-PE-BLK-25

DESCRIPTION:

OSC8 8 Core 24AWG
Overall Foil Screen SWA 600V Black PE

- Additional screening makes this cable suitable to be installed in areas where protection from electrical interference is required
- Used for RS232 protocol
- Polyethylene plastic is excellent for use externally above ground or below ground inside ducting
- Provides mechanical protection against cable being pinched or pierced
- UV resistant
- Supplied as Reel of 100m, 25m & Cut to length









Product Specification

25-YEAR WARRANTY

Cable Construction

Cable Construction	8 Cores
CPR	Fca
Conductor	Tinned Copper
Conductor 2	N/A
Conductor 3	N/A
Conductor Diameter (mm)	0.19 ±0.008 x 7
Inner Conductor	Tinned Copper
Stranded Diameter (mm)	0.58
Overall Diameter (mm)	10.00 ±0.50

Insulation

Insulation	PVC
Insulation Colour	Red,Black,White,Green,Blue,Brown,Orange,Yellow
Insulation Resistance @20°C	>200MO/km
Insulation Thickness (mm)	0.3

Outer/Jacket Specification

Outer Jacket	PE
Outer Jacket Colour	Black RAL 9005
Inner Jacket	PE
Inner Jacket Colour	Black RAL 9005
Inner Jacket Diameter (mm)	5.90 ±0.20
Inner Jacket Thickness (mm)	0.65
Jacket	PE
Overall Colour	Black
Overall Diameter (mm)	10.00 ±0.50
Jacket Colour	Black RAL 9005
Jacket Thickness (mm)	1.2
Nylon Rip-Cord	Yes

Electrical Characteristics

Insulation Resistance @20°C	>200MO/km
Max Conductor DC resistance @ 20°C	<90.00O/km
Outer Conductor DC resistance @ 20°C	≤59.0 Ω/km
Rated Temperature (°C)	-40°C to 70°C
Rated Voltage (V)	600V
Impedance	75Ω Nominal
Capacitance	C:C 100 pF/m Nom; C:P 200 pF/m Nom

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MORE INFORMATION:

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA: FIRE RATING	CLASSIFICATION CRITERIA: SFX COMMENT
Reaction to Fire BS EN ISO 1716		
A_{ca}	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet Aca, so they should only be specified with extreme caution.
Reaction to Fire BS EN 50399		
$B1_{ca}$	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1ca.
$B2_{ca}$	Combustible, low flame spread & heat release contribution to the fire	Similar to Class Cca, although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.
C_{ca}	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class Dca, this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class Cca though availability is improving.
D_{ca}	Combustible, moderate flame spread & heat release	This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured.
Reaction to Fire BS EN 60332-1-2		
E_{ca}	Combustible, limited fire spread of less than 425mm	A basic test for vertical flame propagation for a single insulated wire or cable using a 1 KW pre-mixed flame. Note: This test does not measure heat release, toxic fumes or smoke.
F_{ca}	Combustible, fire spread of more than 425mm	Cables classified to Class Fca may have high levels of flammability due to the materials they are made of. This does not mean that the cable cannot be used, it is more likely to be used external.

CPR GUIDE

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SUBCLASSIFICATIONS FOR EUROCLASSES Bca to Dca

(S) SMOKE PRODUCTION	(D) FLAMING DROPLETS	(A) SMOKE ACIDITY
BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
s1a: s1 + transmittance >=80% (BS EN 61034-2)	d0: No fall of droplets or flaming particles, times for 1200 seconds	a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3)
s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)		
s1: Low production of slow propagation of smoke	d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds	a2: low acidity (conductivity <10 µS/mm & pH >4.3)
s2: Intermediate production & propagation of smoke		
s3: None of the above	d2: None of the above	d2: None of the above

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Classes A to E have to be tested by an independent authorised laboratory.
Most cables will fall into classes B2ca to Eca.
For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.

OUR OPERATING TEMPERATURE RANGE GUIDE

