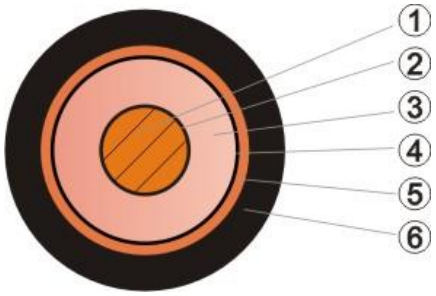
Cu/HEPR/CS/PE 19/33 kV

DRAWING – GENERAL CONSTRUCTION - COLOUR CODE AND MARKING



1. **CONDUCTOR FILLED**
2. **CONDUCTOR SCREEN**
3. **INSULATION**
4. **INSULATION SCREEN**
5. **SCREEN**
6. **OUTER SHEATH**

OUTER SHEATH COLOUR:

Black

NORMS OF REFERENCE:

- **BS 7870.4-10**
- **WESTERN POWER DISTRIBUTION EE72**

OUTER SHEATH MARKING:

Outside the cable must be placed an external marking as follow:

WPD TRATOS + ELECTRIC CABLE 33000 V BS 7870.4-10 1XSEC + year of production + metrical marking

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

	U.M.					
CONDUCTOR LONGITUDINALLY WATER BLOCKED						
Material		Annealed stranded plain copper (Cl. 2)				
Nominal cross section	mm^2	**1X185**	**1X240**	**1X300**	**1X400**	**1X630**
TRATOS CODE		083972	083981	012625	083984	083985
Nominal diameter	mm	15,60	18,00	20,60	22,90	29,80
Max. resistance at 20°C	Ω/km	0,0991	0,0754	0,0601	0,047	0,0283
Material		Semiconductor layer				
Colour		Black				
INSULATION						
Material		HEPR				
Colour		Natural				
Nominal thickness	mm	8,0				
INSULATION SCREEN						
Material		Semiconductor layer strippable				
Colour		Black				
SCREEN						
Formation		Annealed plain copper wires + tape				
Nominal cross section	mm^2	35				
Max. resistance at 20°C	Ω/Km	0,542				
OUTER SHEATH						
Material		**MD PE**				
Nominal thickness	mm	2,2	2,3	2,4	2,5	2,7
Nominal outer diameter	mm	42,2	44,6	47,4	50,0	57,3
Nominal weight	Kg/km	3.510	4.070	4.900	5.885	8.420

GENERAL CHARACTERISTICS							
Min. bending radius		mm	14 x ø				
Current capacity	Air 30°C	A	522	650	748	867	1087
	Ground 20°C		403	472	535	609	765
Max. conductor short circuit current		kAx1"	26,4	34,3	42,9	57,2	90
Max. screen short circuit current		kAx3"	3				
Nominal reactance		Ω/km	0,122	0,116	0,112	0,109	0,101
Nominal capacitance		µF/km	0,290	0,320	0,352	0,380	0,465
Voltage test		kVx5'	63				